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cca agt aca agc o			cca ggt gat cag agg Pro Gly Asp Gln Arg	272



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			gaa Glu													210
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tct tgg g Ser Trp G	ag aaa	aca Thr	ctg Leu	gaa Glu	tct Ser 30	ggt Gly	ttt Phe	gtt Val	att Ile	aca Thr 35	ctt Leu	act Thr	gat Asp		149
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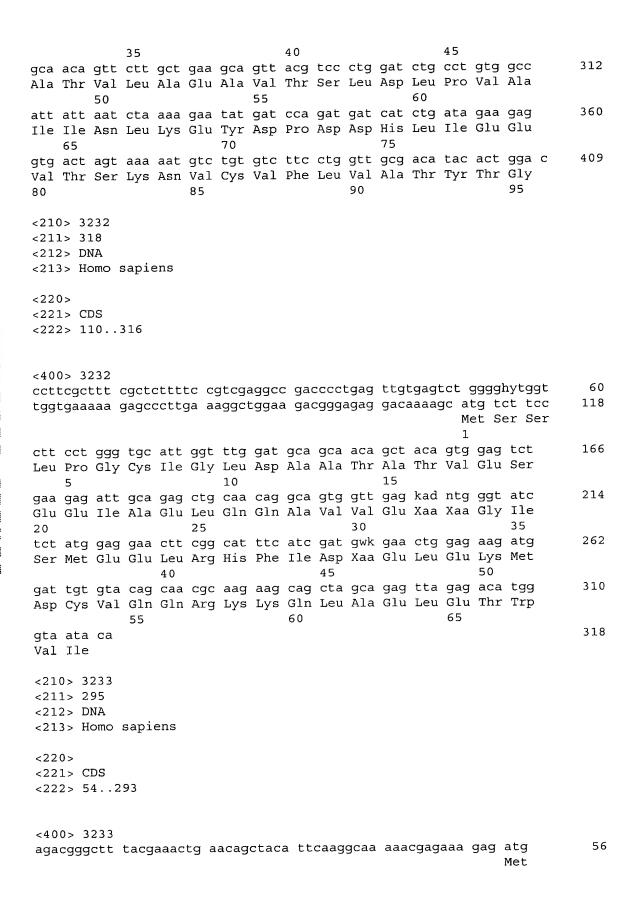
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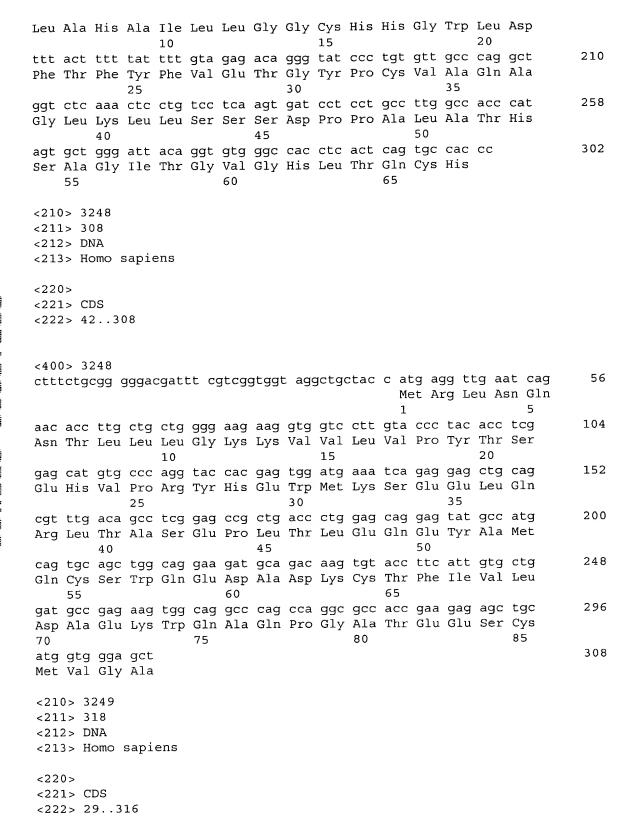
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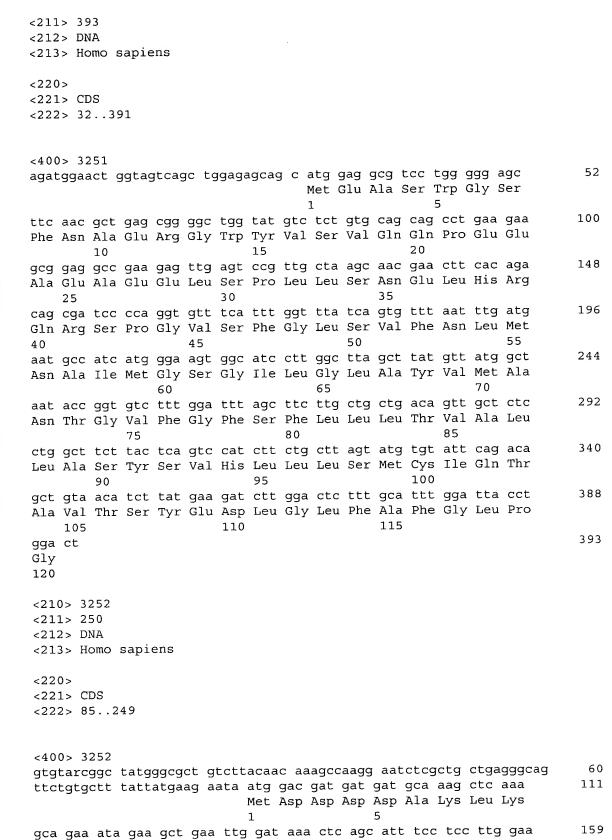
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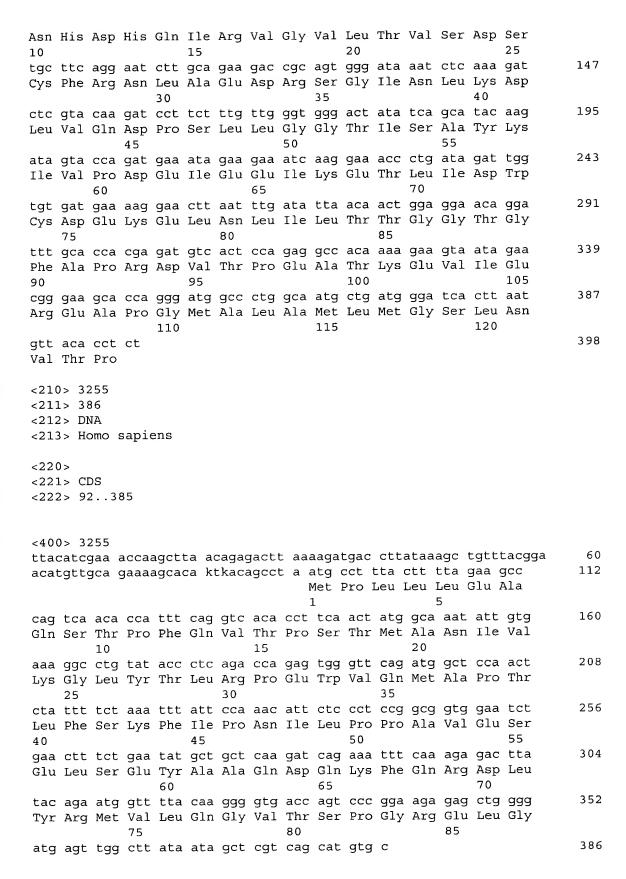


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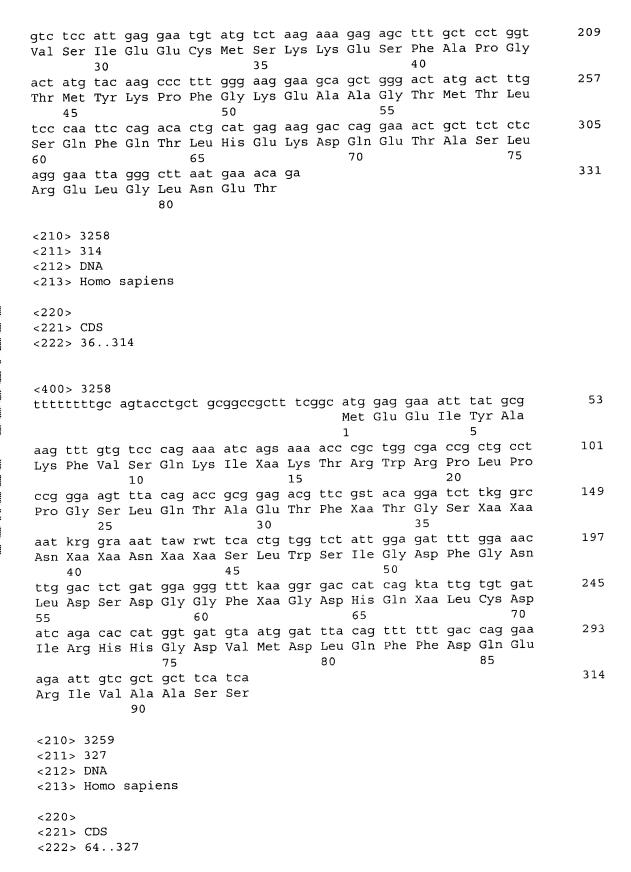
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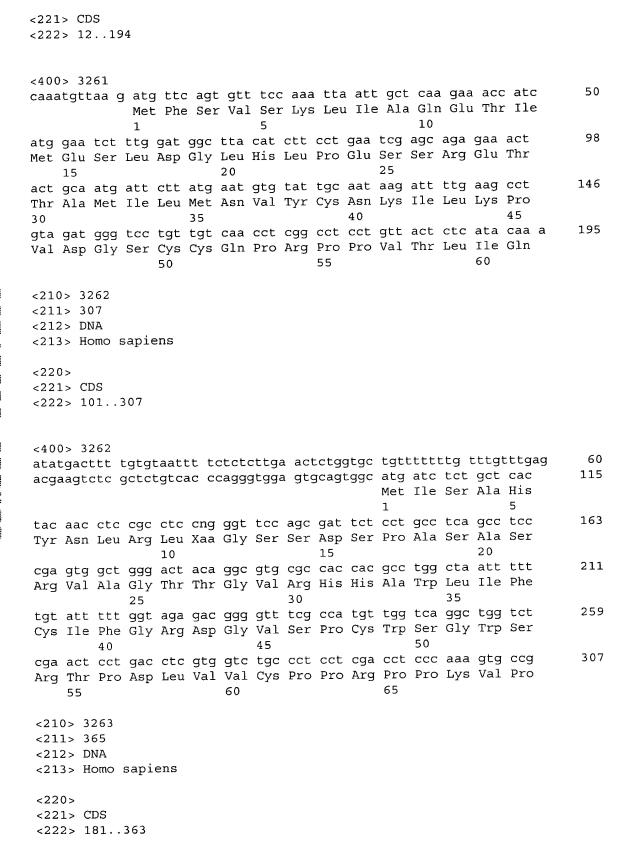
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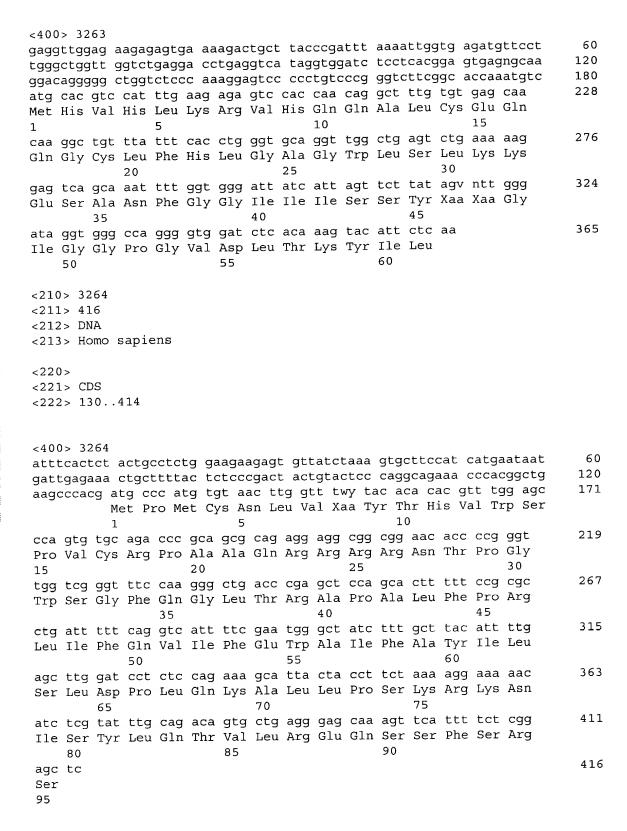


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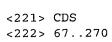


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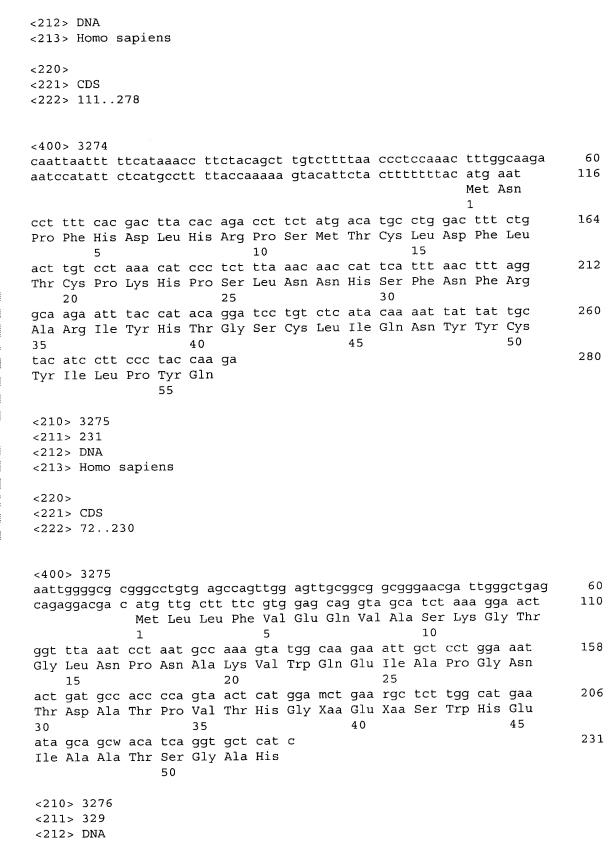
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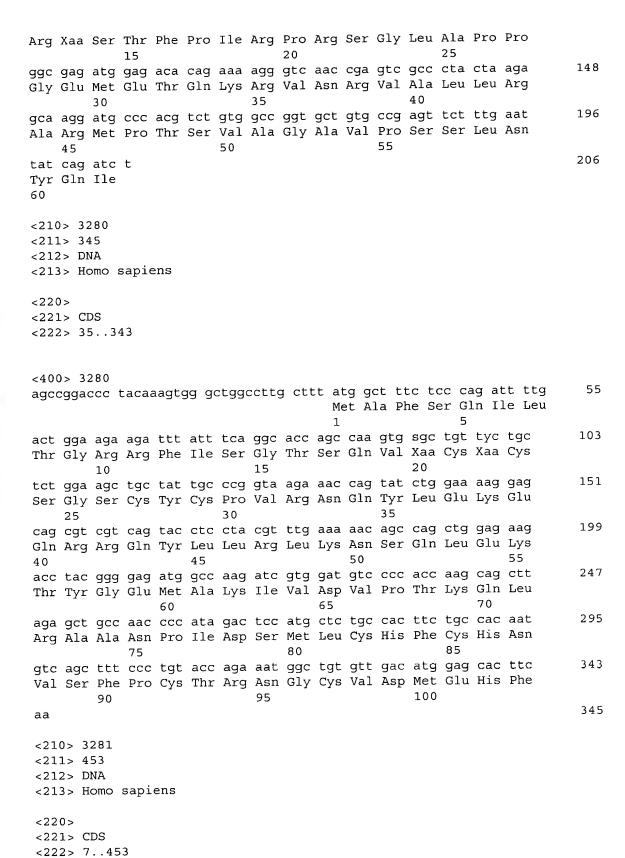


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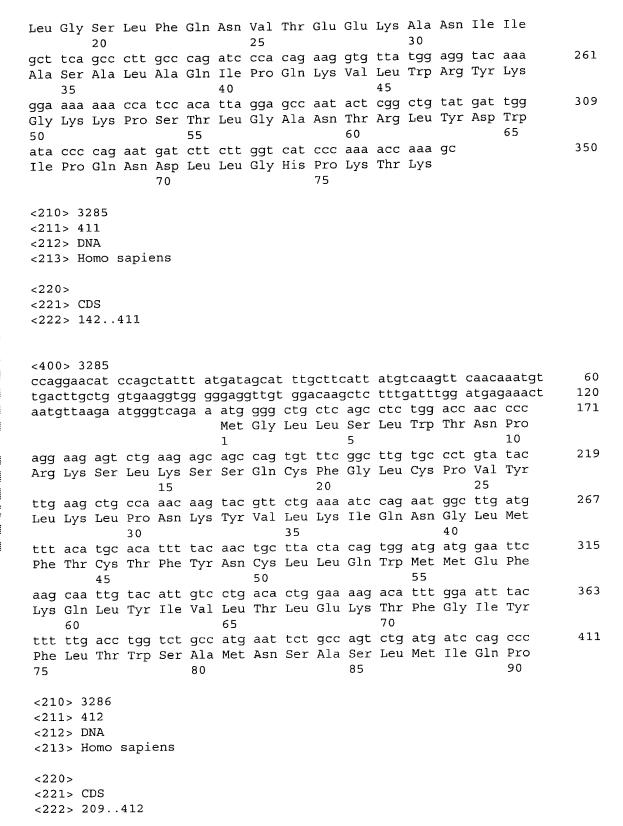
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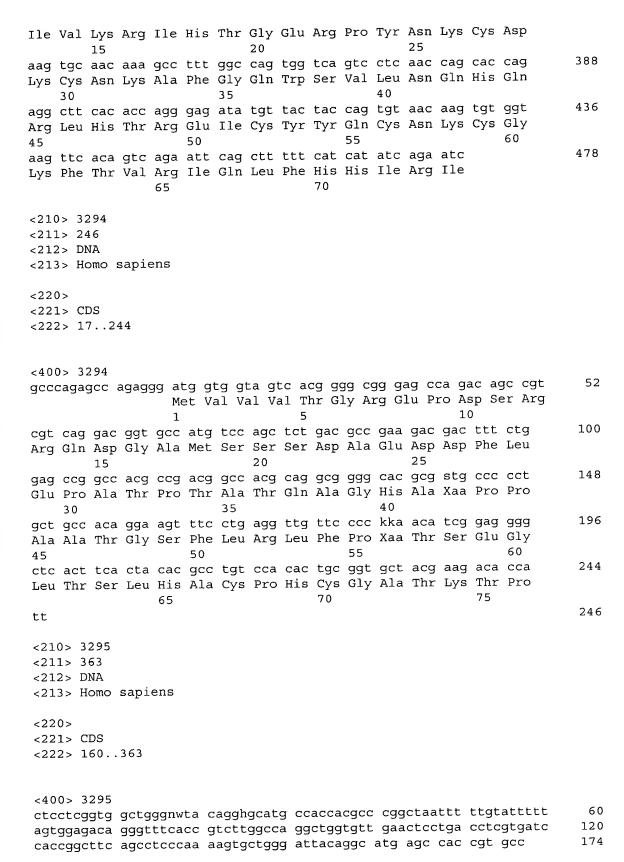
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1 5 10 atc gtt aag aga atc cat act gga gag aga ccc tat aat aaa tgt gac	340





Met Ser His Arg Ala

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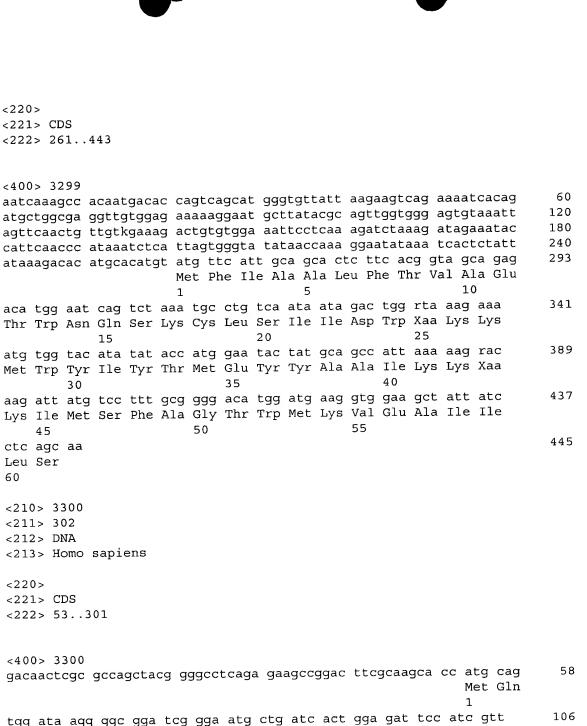
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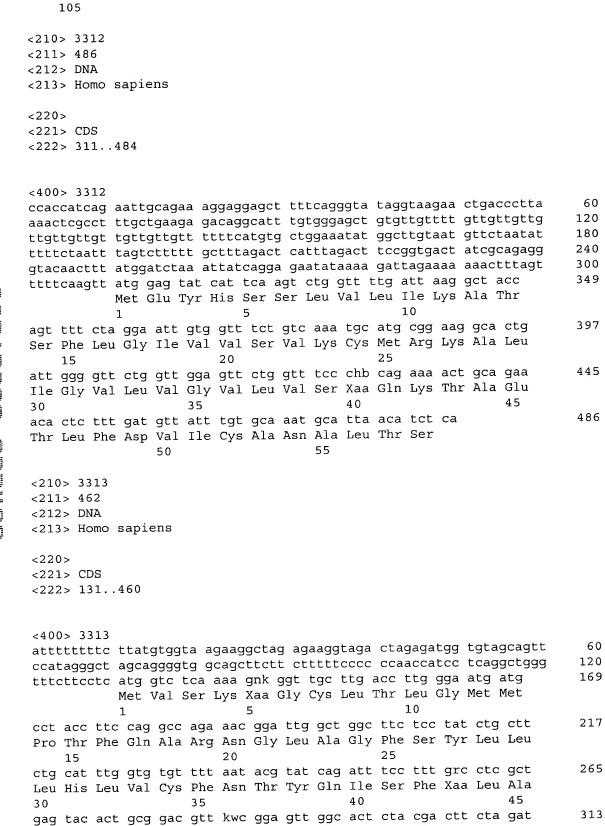
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gma Xaa	caa Gln 30	agt Ser	ttg Leu	tgt Cys	ata Ile	ttg Leu 35	act Thr	atc Ile	aaa Lys	ggg Gly	caa Gln 40	ggg Gly	tgt Cys	cga Arg	cac His	385
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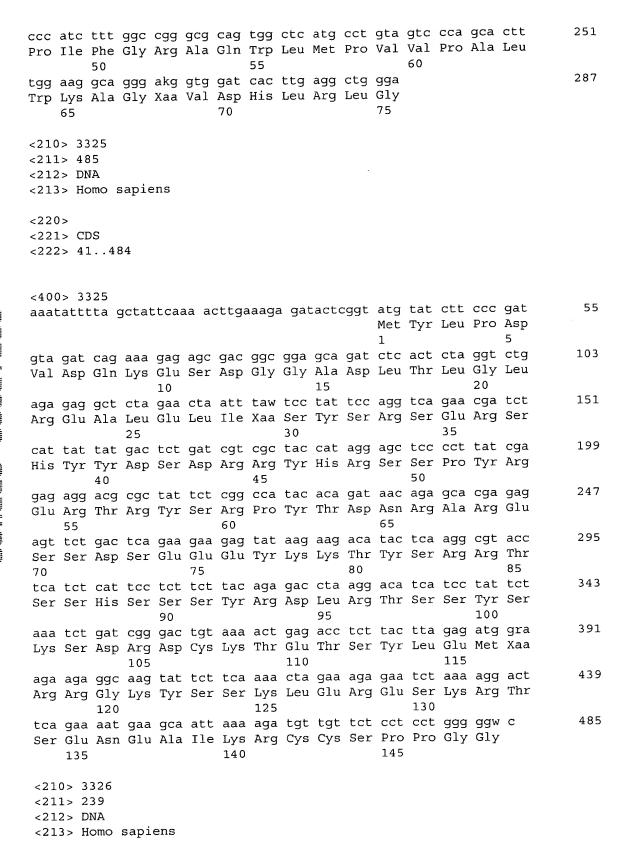
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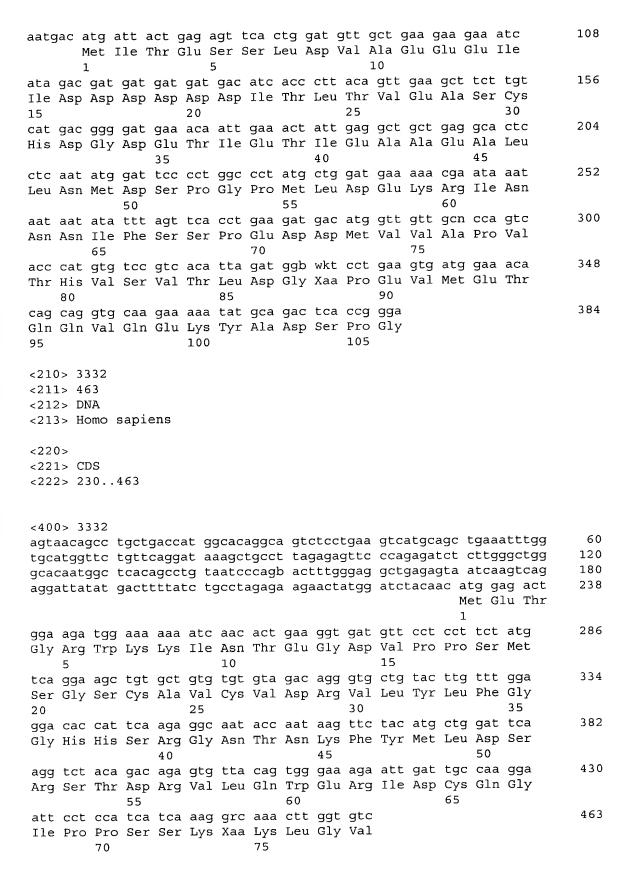
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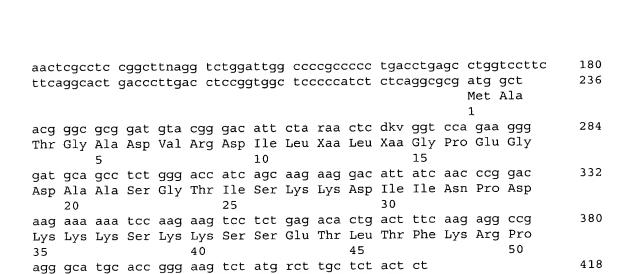
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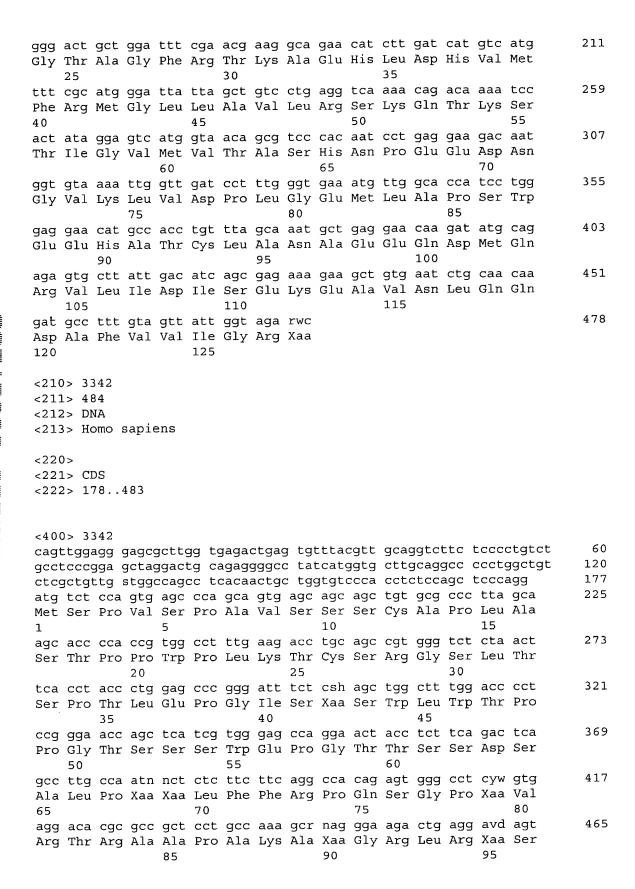
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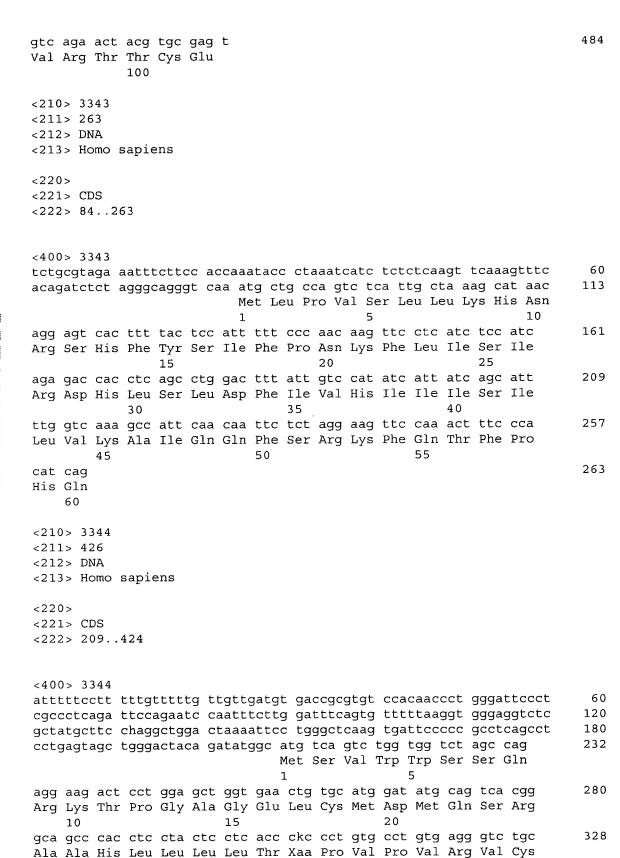
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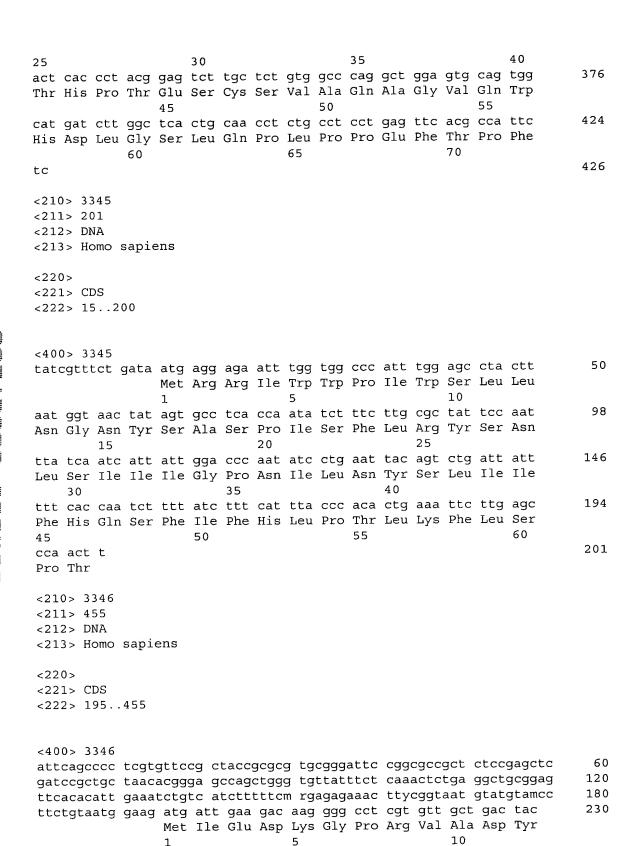
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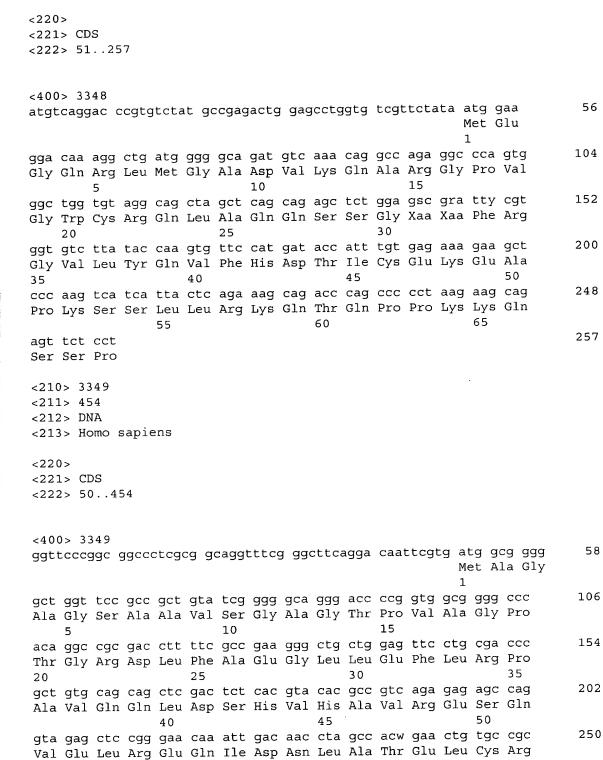






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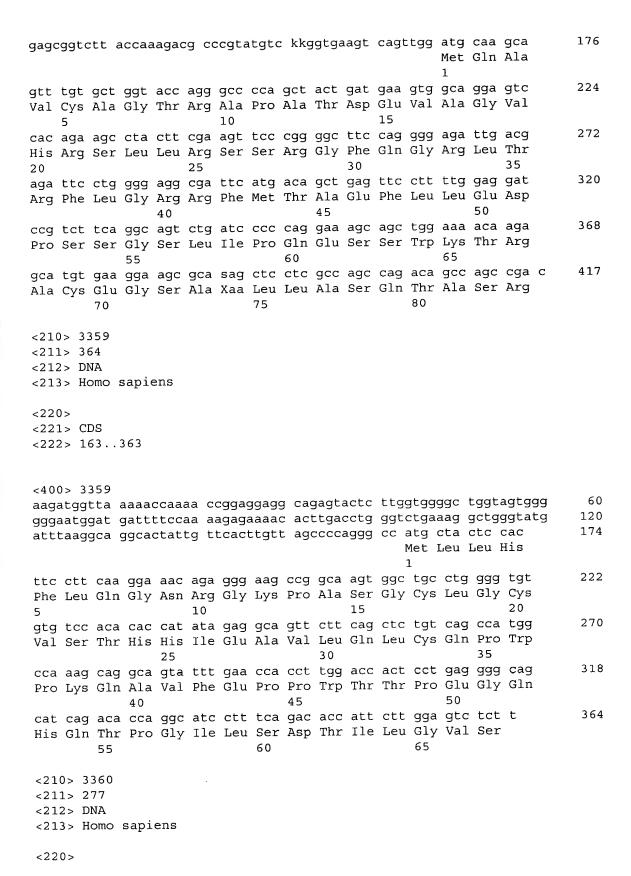
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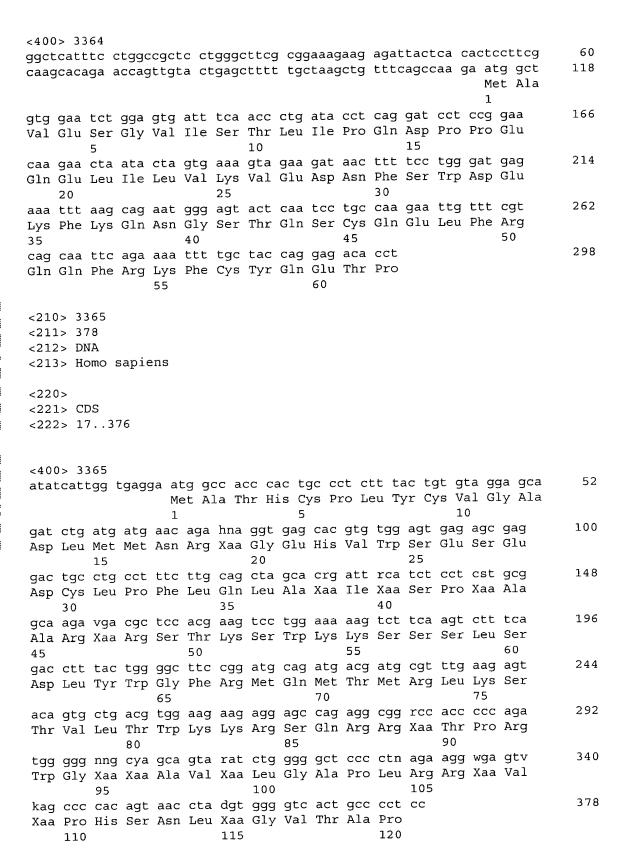
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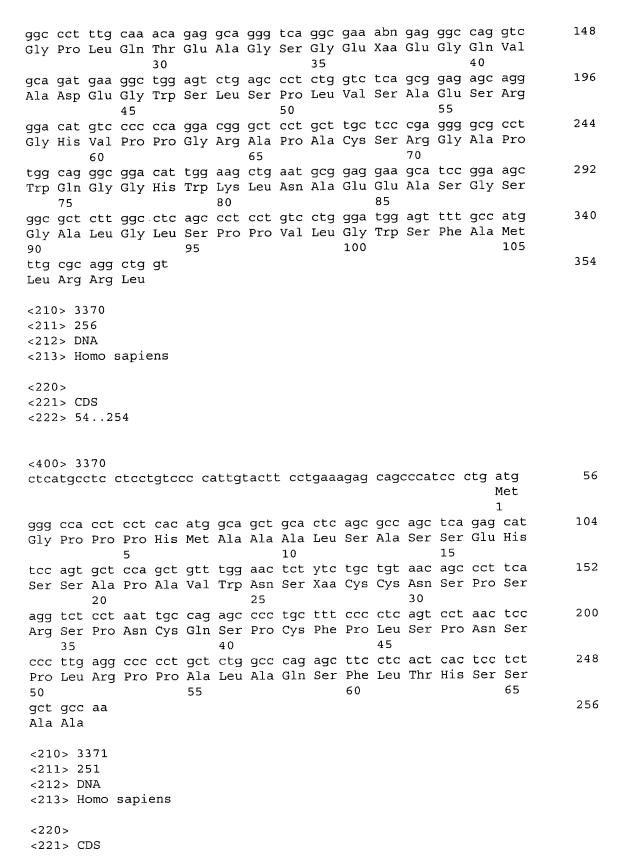
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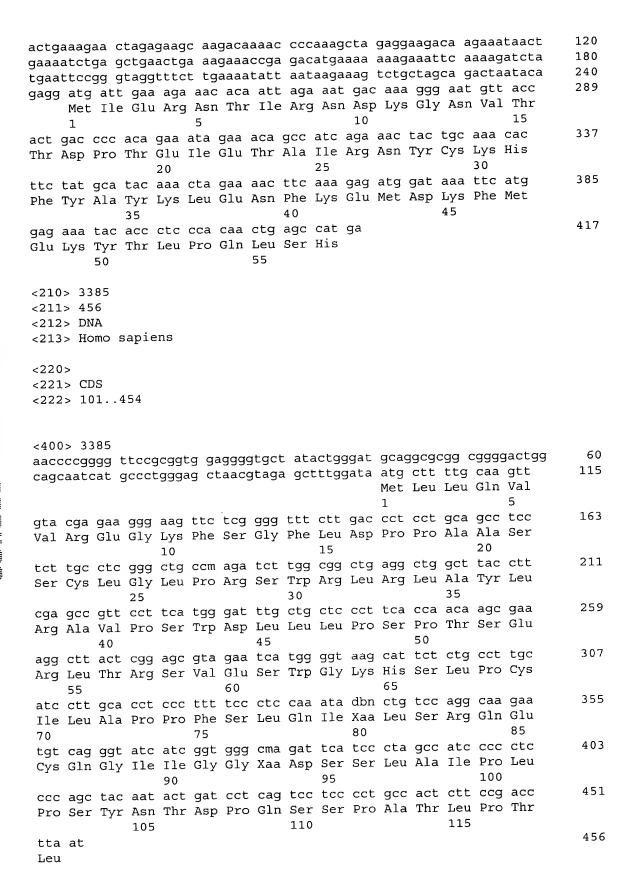
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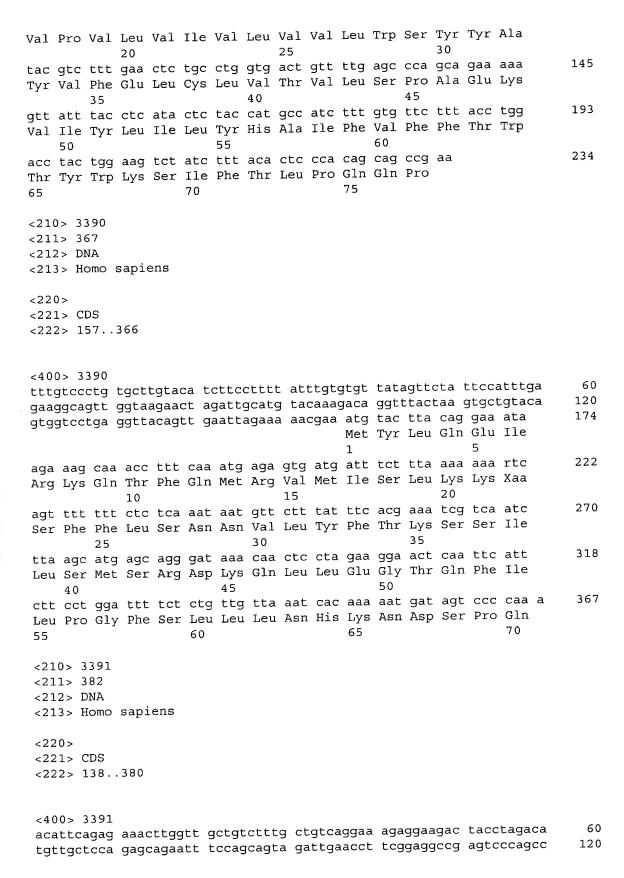
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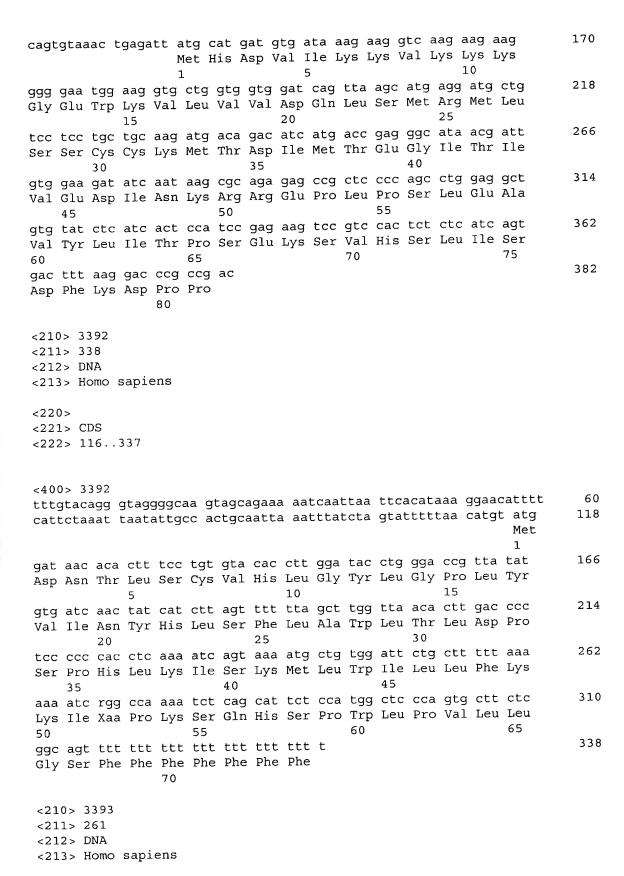


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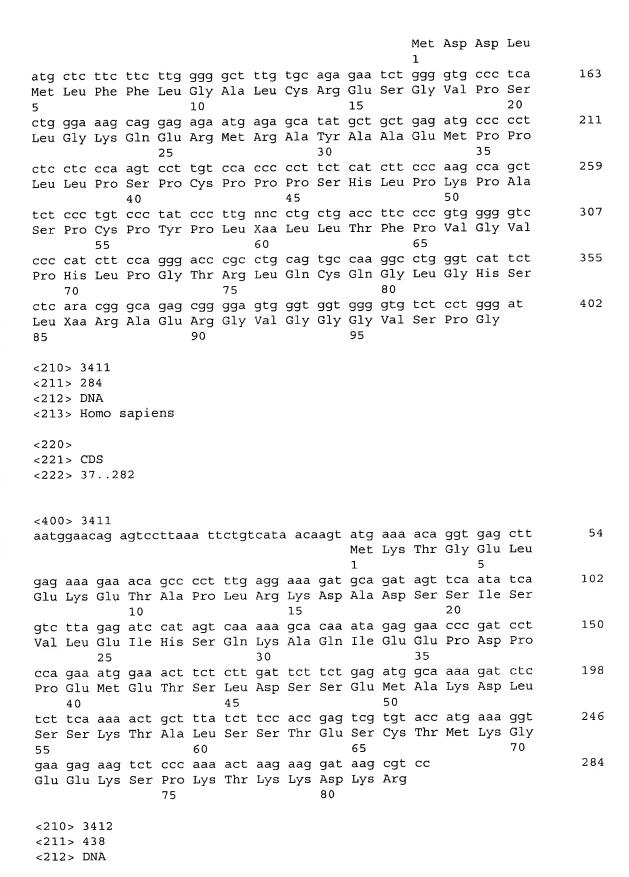
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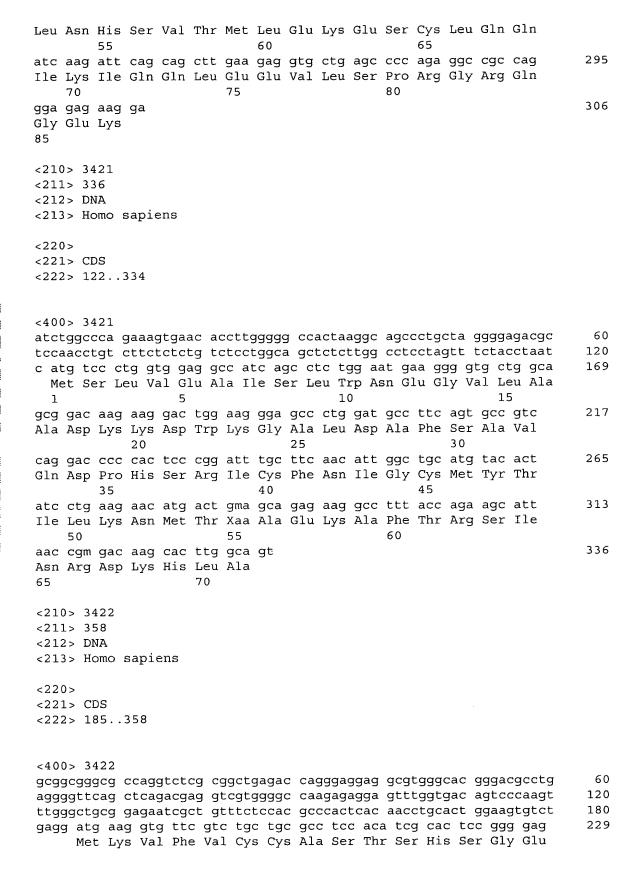
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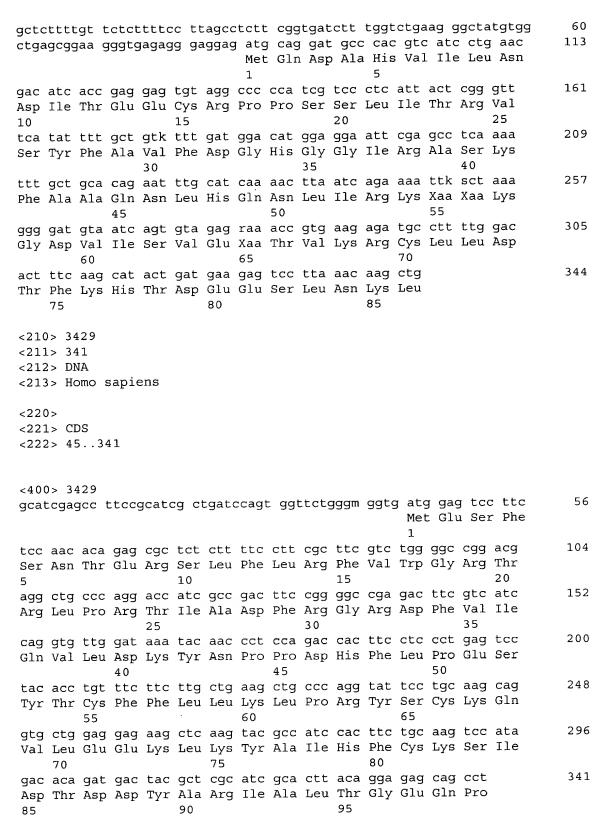
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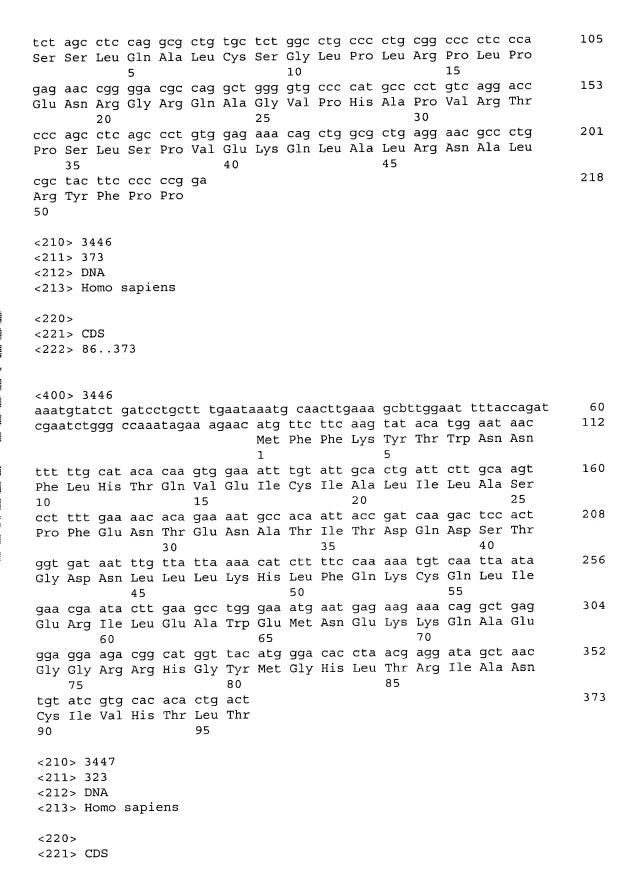
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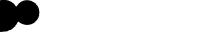
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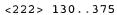
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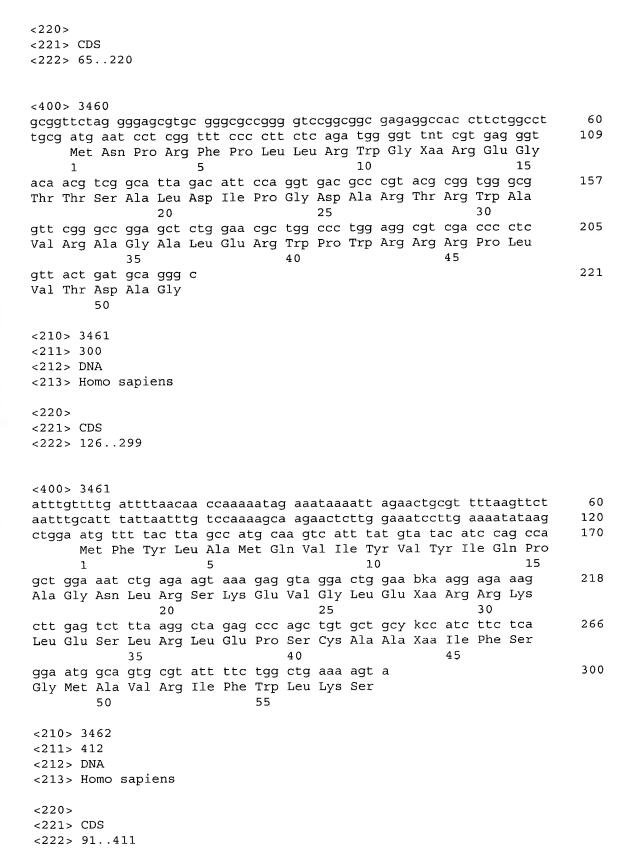
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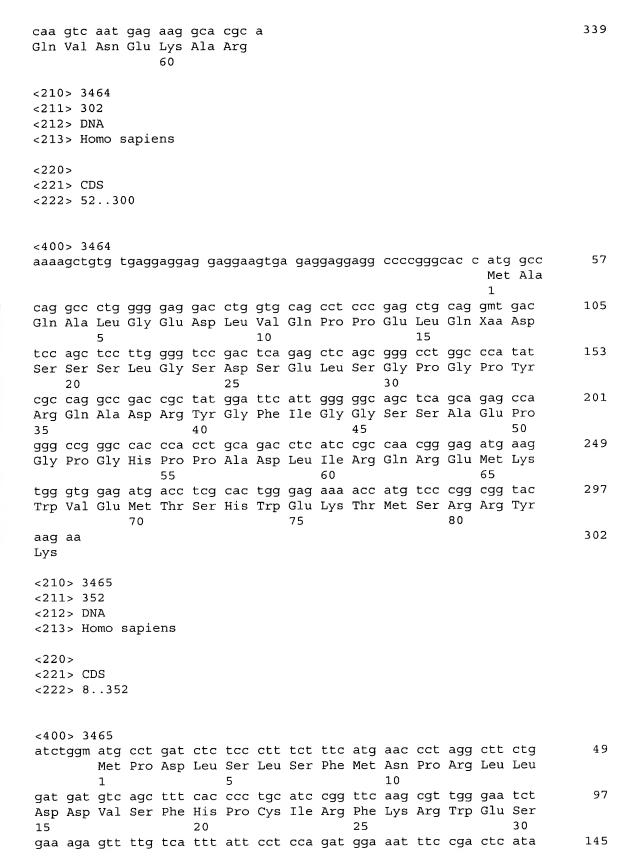


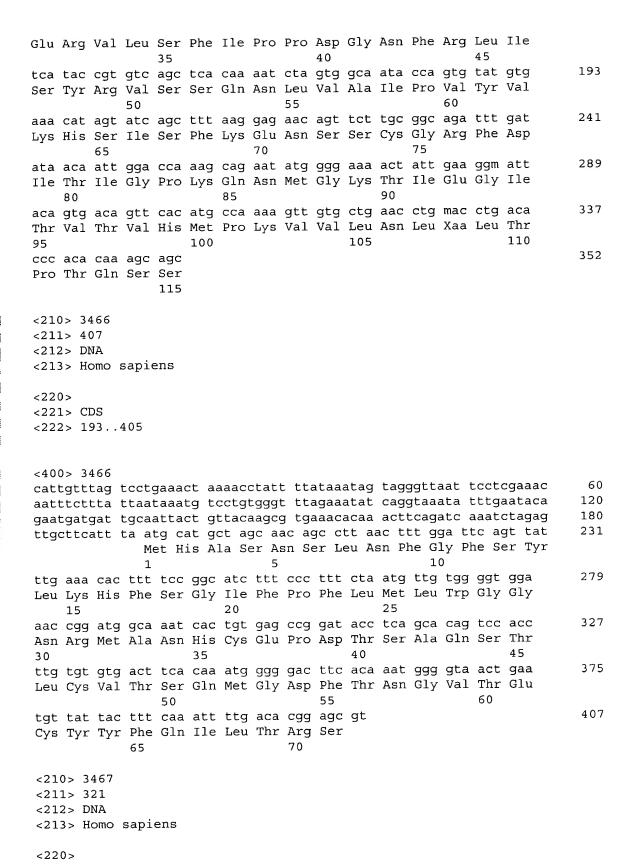


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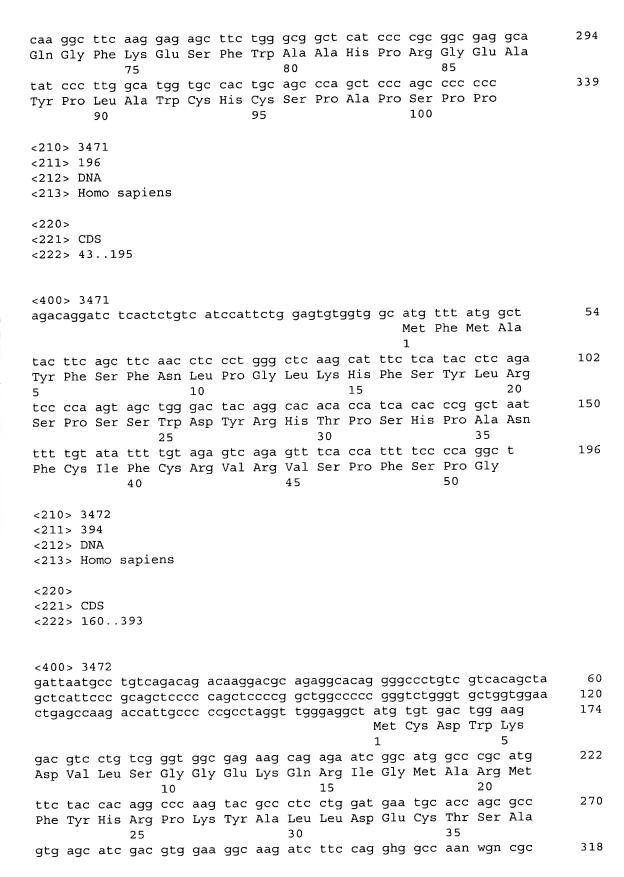


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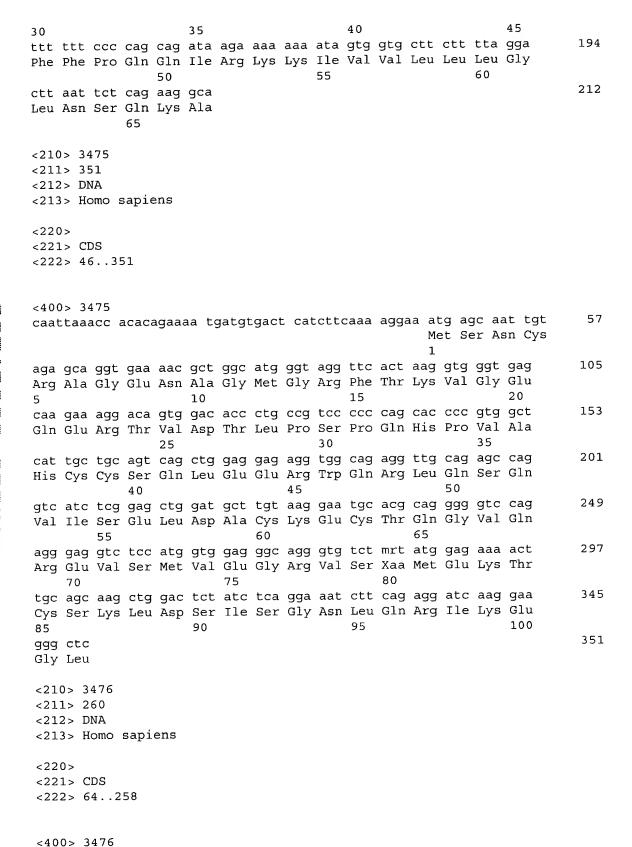
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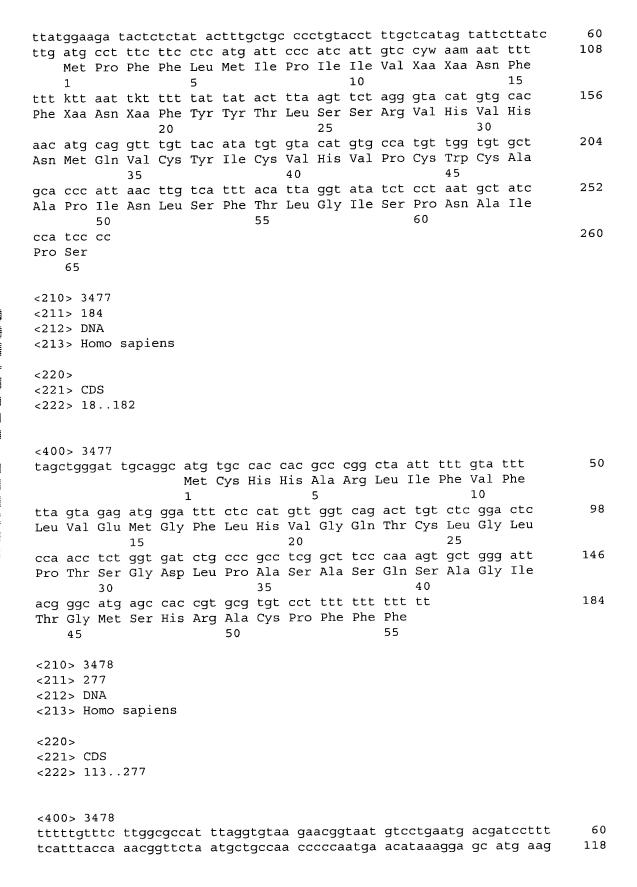
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2151



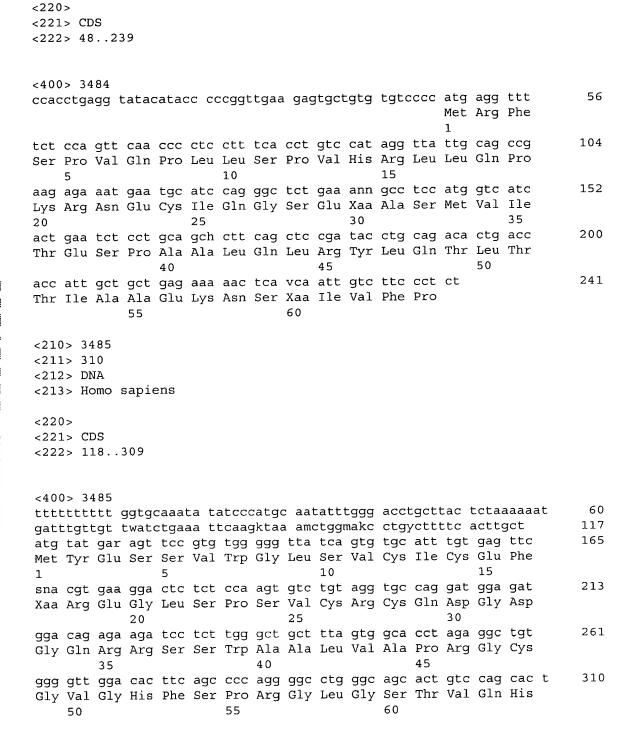
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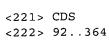
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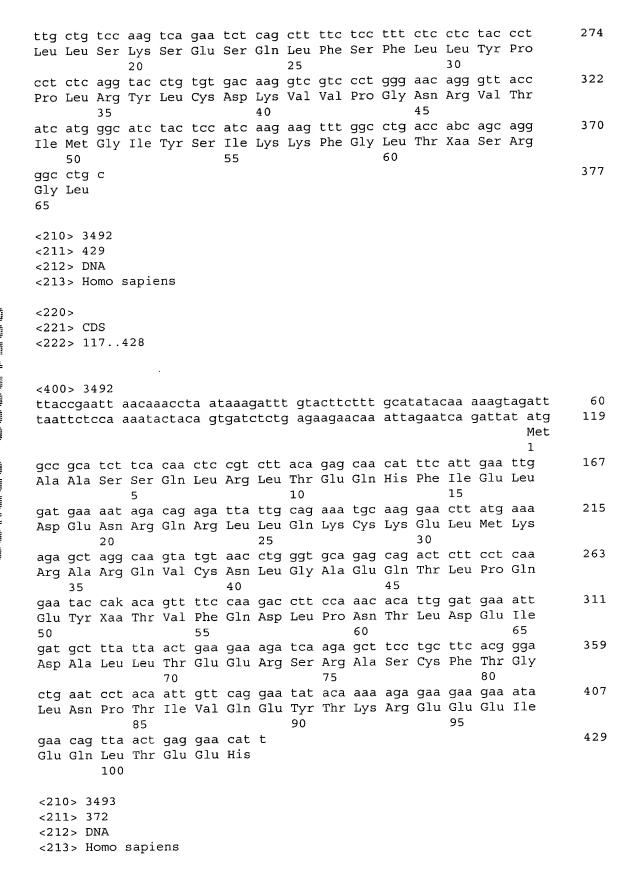
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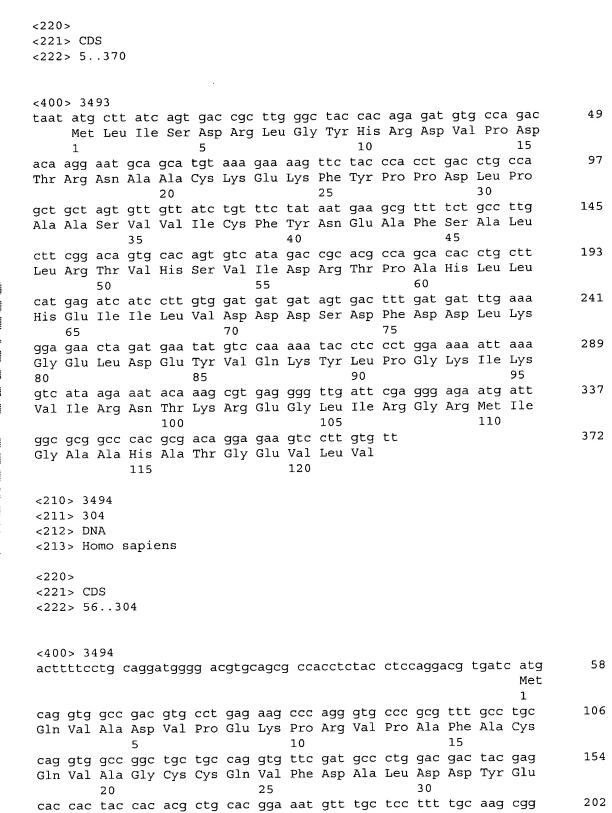


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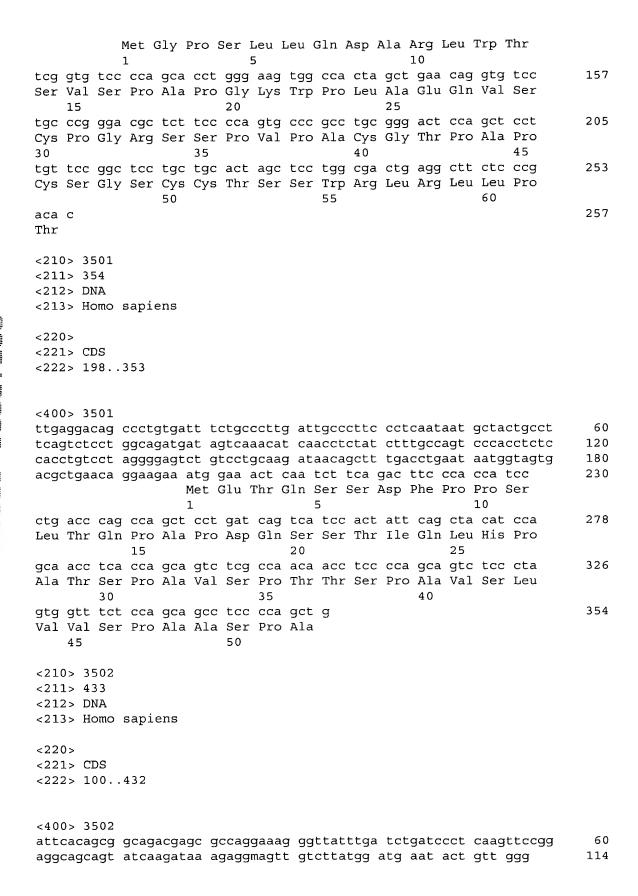


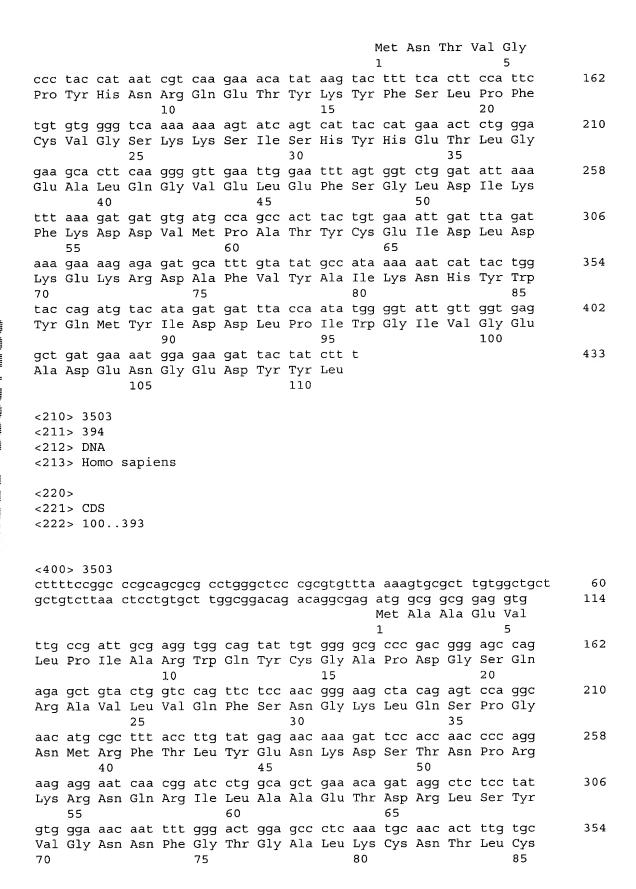
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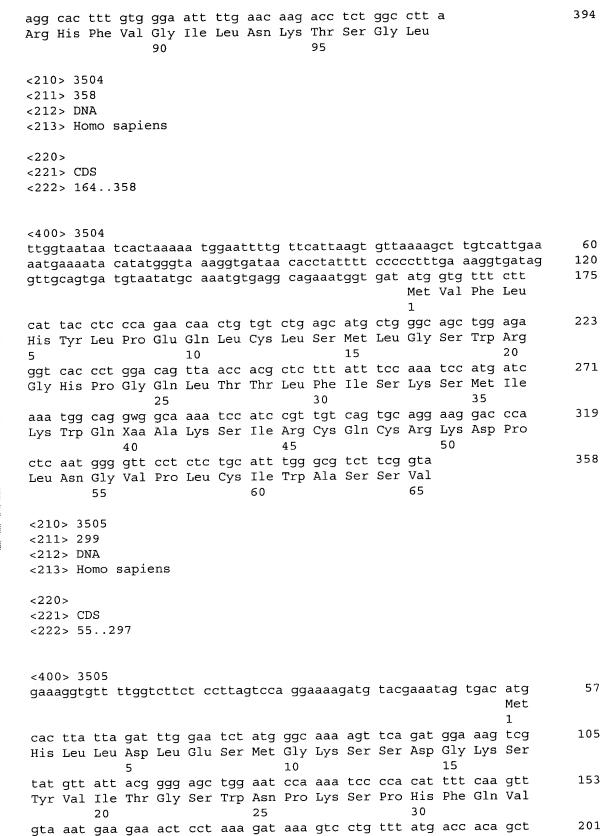
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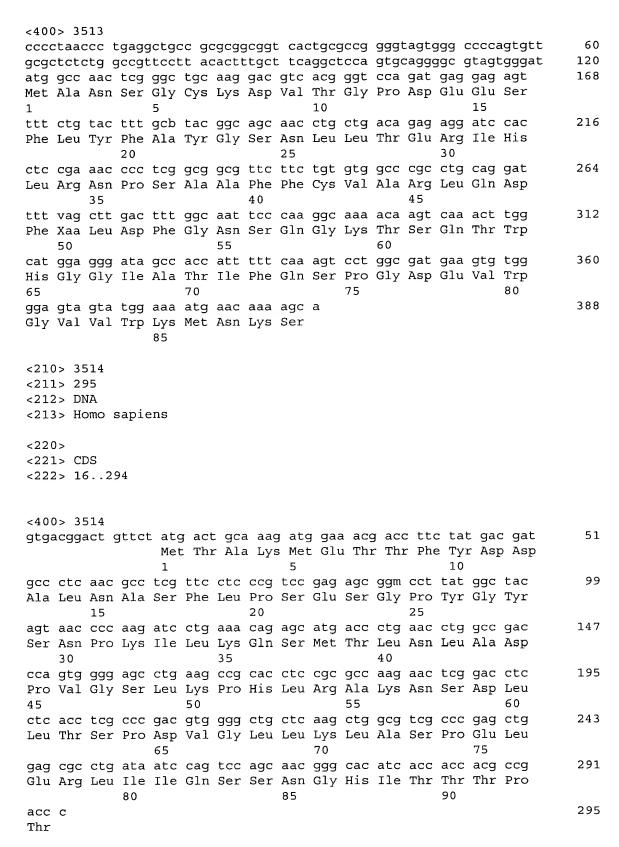


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a L + 1		n Dh	e Dh	o Dhe	⊃ Dhe	= T]	e Se	r Pro	o Pr	o Pr	o Pr	o Se	r Pr	o Ala	a Phe	
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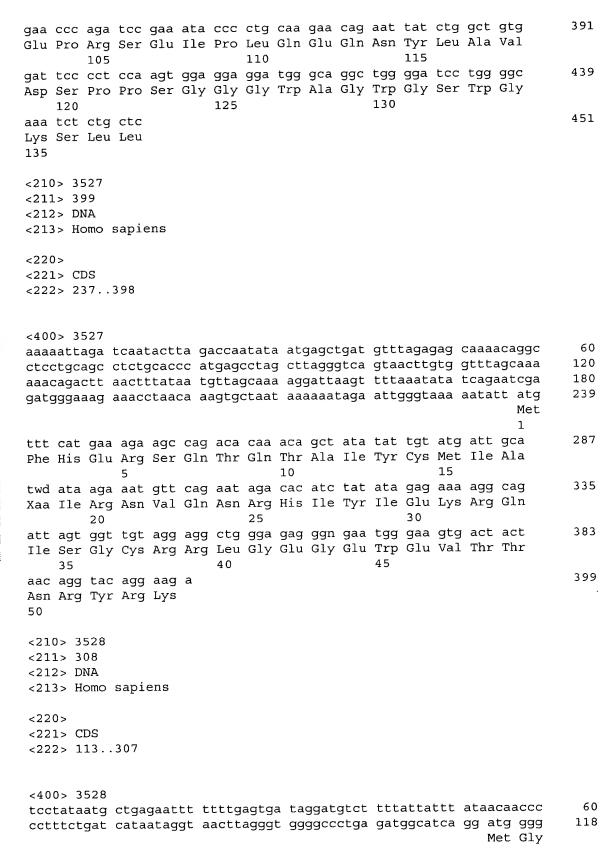


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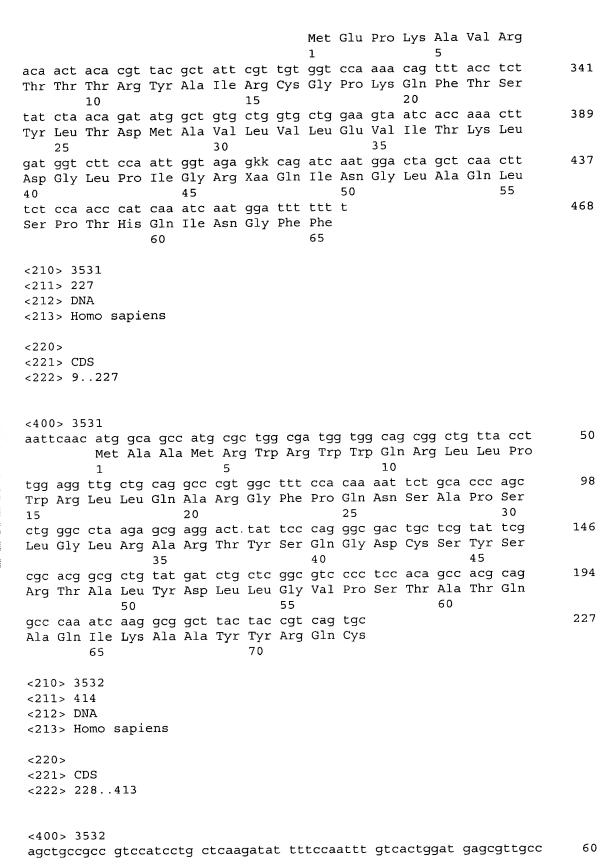
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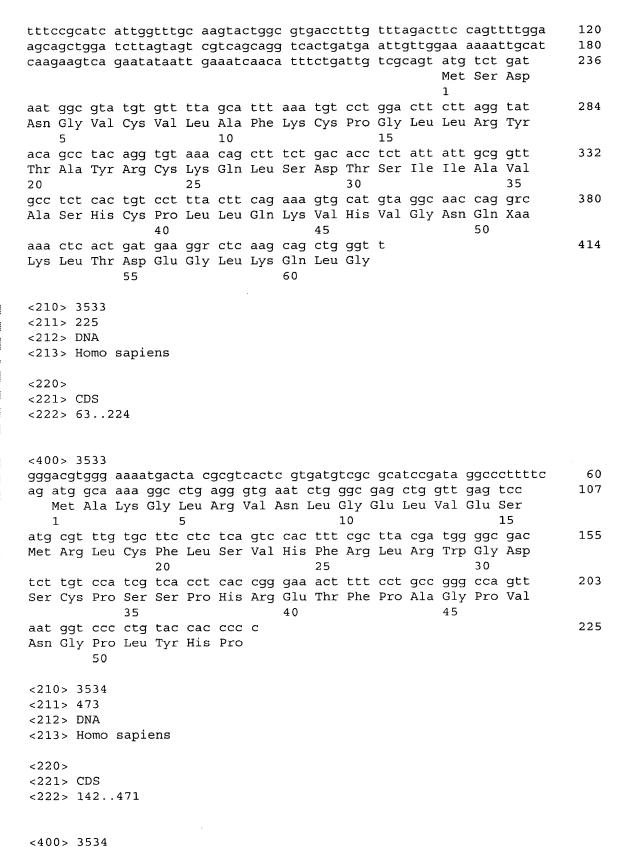


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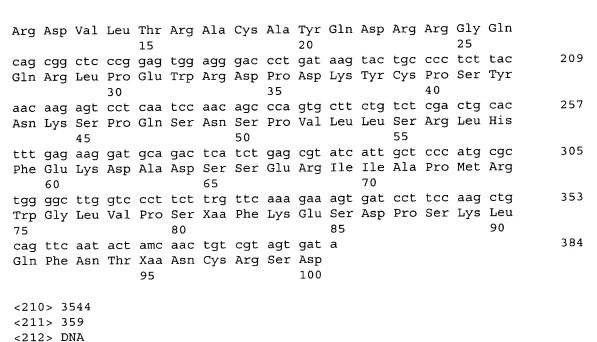
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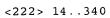
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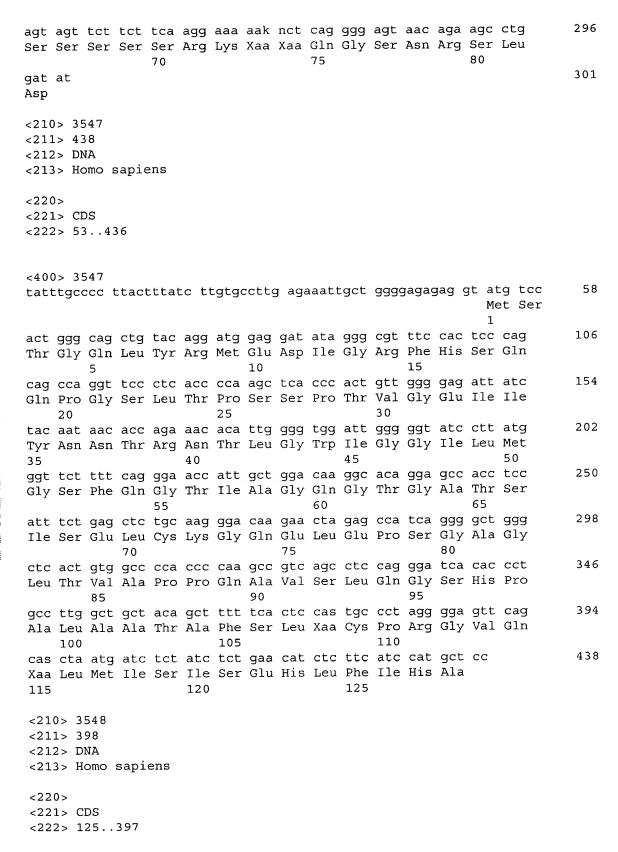
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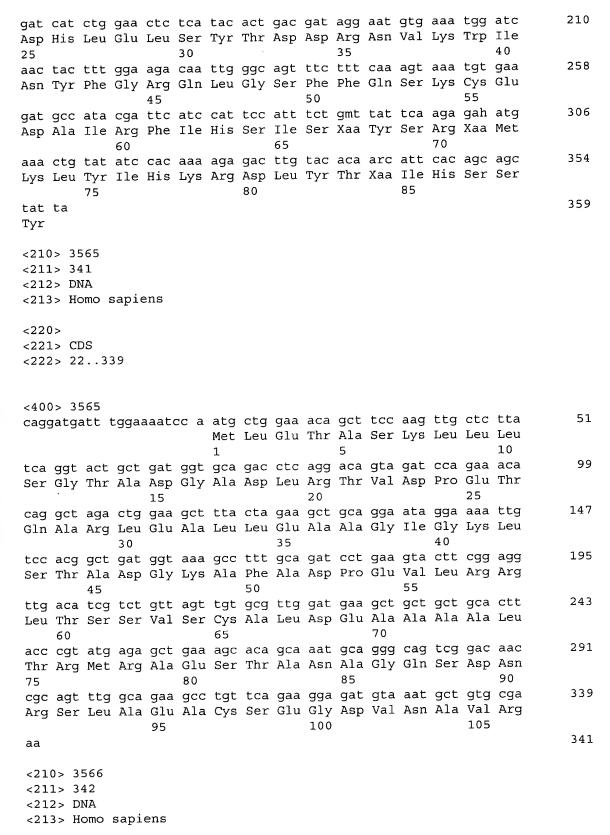
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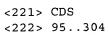
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289

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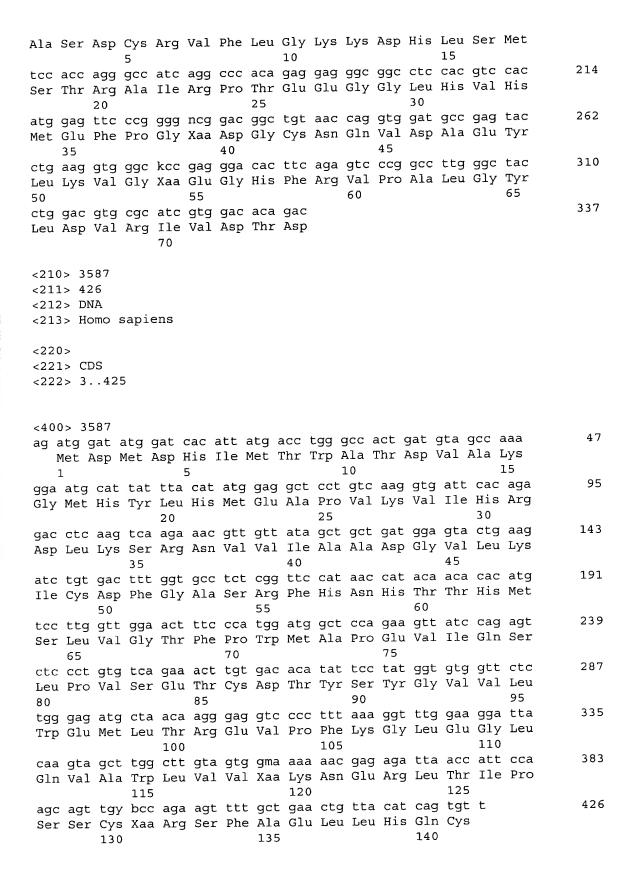
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cct cag aaa	aaa aag gat tcc Lys Lys Asp Ser	caa aag tcc tct att Gln Lys Ser Ser Ile 55	ttg tca tgg aga 254 Leu Ser Trp Arg 60
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aga Arg agc Ser aaa Lys cat His 50 aag Lys atc Ile	caa Gln cta Leu cat His 35 aat Asn gat Asp cag Gln	aca Thr agc Ser 20 ttt Phe atc Ile ttt Phe gtt Val	rat Xaa 5 cat His ata Ile ttg Leu gta Val gtt Val 85 atc Ile	cgg Arg aca Thr ttt Phe tgg Trp tcc Ser 70 ggt Gly ttg	gat Asp gga Gly gtt Val tac Tyr 55 ccg Pro tgg	gta Val gat Asp atg Met 40 ctg Leu gcc Ala	ata Ile ggg Gly 25 atg Met tgt Cys tac Tyr gtt Val	aca Thr 10 aaa Lys gac Asp gga Gly ttg Leu aat Asn 90 ata	gca Ala cca Pro att Ile att Ile ay Lys 75 acc Thr	tta Leu cgc Arg ttg Leu tca ser 60 rwg Xaa ttt Phe ctg	act Thr tat Tyr ctc Leu 45 gct Ala tgg Trp gat Asp	cac His gat Asp 30 gat Asp ttc Phe tca Ser gaa Glu	aga Arg 15 act Thr tgg Trp ccc Pro gct Ala aga Arg 95 t	cct Pro ttc Phe agc Ser atg Met aaa Lys 80 gtt	Met 1 tgg Trp tgg Trp atg Met caa Gln 65 gga Gly act	105 153 201 249 297

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Ser	Āla	Met	Pro	Gln	Ser	Ser	Gly	Ser	His	Gly	Pro	Ala	Ile	Ala	Ala	
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								t GI	u A⊥	а Ту		r ьу	в це	u Tn.	r Asp	
		_,,			~ + +	<b>.</b>	1	+ ~+	20+	an+	5	220	tta	222	gac	161
aac	att	TTT.	ctg	gag	att	tta	Lac	COF	aCL Th∽	yat	Dro	Isse	ttg Leu	Live	Asn	101
	тте	ьue	ьeu	GIU		ьeu	TAL	ser	TIIT	20	FLO	пуз	ьeu	шуз	25	
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Ата	Arg	Ju	тте		ьys	GIU	тте	GIU	1 y r 3 5	Arg	Mail	TEU	Phe	ду 5 40	-1-	
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val	GTA	GIU		GIN	rro	ınr	сту	50	ııe	пλр	TIE	лаа	Arg 55	υ±u	1725	
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cat	gaa	CCC	CCC	CCa Desc	aaa	gag	y	- אור	ayı Car	י אוי	Luc	Dro	Laud	Val	Leu	50.
Tyr	Glu	ser	ьeu	Pro	ьys	GIU	val	HId	ع ح د	ATG	. шуъ	FIO	Lys	val	a	

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cag aca cca ctc go Gln Thr Pro Leu Al	ct acc tca ttc	gaa ggc cga cat Glu Gly Arg His	ggc agt gtg cgc Gly Ser Val Arg 40	149
tat tgg gtg aaa go Tyr Trp Val Lys Ai	cc gaa ttg cac la Glu Leu His 50	agg cct tgg cta Arg Pro Trp Leu	cta cca gta aaa Leu Pro Val Lys 55	197
tta aag aag gaa t Leu Lys Lys Glu Pl	t aca gtc ttt	gag cat ata gat	atc aac act cct	245
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155

203

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ggg Gly 65	gtt Val	ttg Leu	gct Ala	cag Gln	gag Glu 70	gac Asp	ctc Leu	gtg Val	gga Gly	ctg Leu 75	ctg Leu	gag Glu	ccc Pro	atc Ile	aac Asn 80	299
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gga Gly atg Met 30 gcc Ala tac Tyr ttg Leu	cct Pro 15 aag Lys att Ile ttc Phe gca Ala	ctc Leu acg Thr ggc Gly ctt Leu ctg	Met of atg Met tct ser acc Thr gcc Ala 65 ctg Leu aat	ctg Leu gac Asp tgc Cys 50 tac Tyr ggc Gly	gtc Val act Thr 35 ttc Phe ctg Leu tat Tyr	ttc Phe 20 att Ile ggc Gly tgc Cys ggc Gly	Pro (5 act Thr atc Ile tac Tyr acc Asn ctc Leu 85 cgc	ctg Leu cgg Arg tgg Trp gcc Ala 70 ttt phe	gtt Val gag Glu ctg Leu 55 cag Gln	gct Ala ggc Gly 40 gga Gly atc Ile cat	atc Ile 25 acc Thr gtc Val acc Thr	Gly (10 cta Leu ctg Leu tca Ser atg Met Ile	ctc Leu atg Met tcc Ser ctg Leu 75 gtc	cat His ggc Gly ttc Phe 60 cag Gln	ggg Gly aca Thr 45 att Ile atg Met	97 145 193 241

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aat gag act gta gcg gat act act cta acc aaa gcc ccc gtc tct tcc Asn Glu Thr Val Ala Asp Thr Thr Leu Thr Lys Ala Pro Val Ser Ser 20 25 30	97
act gaa agt gtc atc caa tct aat act ccc aca ccg cct cct tct cag Thr Glu Ser Val Ile Gln Ser Asn Thr Pro Thr Pro Pro Pro Ser Gln 35 40 45	145
ccc tta aat gag aca gct gaa gag gaa agt aga ata agc agt tct ccc Pro Leu Asn Glu Thr Ala Glu Glu Glu Ser Arg Ile Ser Ser Pro 50 55 60	193
aca ctt ctg gag aac agc ctg gaa caa act gtg gag cca agt gaa gac Thr Leu Leu Glu Asn Ser Leu Glu Gln Thr Val Glu Pro Ser Glu Asp 65 70 75 80	241
cac agc gag gag gag agt gaa gag ggc agc gga gac ctt ggt gag cct His Ser Glu Glu Glu Ser Glu Glu Gly Ser Gly Asp Leu Gly Glu Pro 85 90 95	289
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cca ctg gga gga agg aac aag tcc aga ggc gcc acc tta aga gct gta Pro Leu Gly Gly Arg Asn Lys Ser Arg Gly Ala Thr Leu Arg Ala Val 20 25 30 35	212
gca ctc acc gcg agg gtc cgc ggc ttc att ctt gaa gtc agt gag acc Ala Leu Thr Ala Arg Val Arg Gly Phe Ile Leu Glu Val Ser Glu Thr	260
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tgt cac ttc aca ctt gga aga ttg cac agc ggc cag gca gag gcg ctc Cys His Phe Thr Leu Gly Arg Leu His Ser Gly Gln Ala Glu Ala Leu 25 30 35	212
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cat gag caa aaa cag caa gtg gtg aaa ttt tta atc aag aaa aaa gca His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala 15 20 25	160
aat tta aat gca ctg gat aga tat gga aga act gct ctc ata ctt gct Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala 30 35 40	208
gta tgt tgt gga tcg gca agt ata gtc agc ctt cta ctt gag caa aac Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Glu Gln Asn 45 50 55 60	256

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1 5 10 15  gaa aaa gcc aaa cga tat cac atg gat gcc agt ggt gag gct gta agc  Glu Lys Ala Lys Arg Tyr His Met Asp Ala Ser Gly Glu Ala Val Ser  20 25 30	153
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ctc Leu	agc Ser	cag Gln 40	ccc Pro	aac Asn	cac His	ccc Pro	agc Ser 45	ggc Gly	gaa Glu	gtc Val	aag Lys	gct Ala 50	gaa Glu	aat Asn	aac Asn	199
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Gly aaa	tgt Cys	cca Pro	cca Pro	aaa Lys 90	act Thr	tct Ser	cct Pro	tca Ser	aaa Lys 95	gag Glu	aag Lys	act Thr	ccg Pro	tgc Cys 100	ttc Phe	343
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aaa Lys	aga Arg 30	gaa	cga Arg	gaa Glu	aga Arg	caa Gln 35	gaa Glu	ctg Leu	aga Arg	att Ile	tta Leu 40	gtg Val	gga Gly	aca Thr	aat Asn	145
Leu 45	gtg Val	Arg	Leu	Ser	cag Gln 50	Leu	Glu	Gly	Val	Asn 55	Val	Glu	Arg	Tyr	Lys 60	193
cag Gln	att Ile	gtt Val	ttg Leu	act Thr 65	ggc Gly	ata Ile	ttg Leu	gag Glu	caa Gln 70	gtt Val	gta Val	aac Asn	tgt Cys	agg Arg 75	gat Asp	241
gct Ala	ttg Leu	gct Ala	caa Gln 80	gaa	tat Tyr	ctc Leu	atg Met	gag Glu 85	tgt Cys	att Ile	att Ile	cag Gln	gtt Val 90	ttc Phe	mmt Xaa	289
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ctt gct cag gat gtc aaa gaa gaa acc aaa gaa tgg ctg aaa aac aga Leu Ala Gln Asp Val Lys Glu Glu Thr Lys Glu Trp Leu Lys Asn Arg 25 30 35	151
att ata gct aaa aaa aaa gat gga ggt gcc cag ttg ttg ttt aga cca Ile Ile Ala Lys Lys Asp Gly Gly Ala Gln Leu Leu Phe Arg Pro	199
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atc agg gac cag gag gag ctg aag ggc aag aag gtg ccc cag tac cca  Ile Arg Asp Gln Glu Leu Lys Gly Lys Lys Val Pro Gln Tyr Pro 60 65 70 75	363
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Leu Leu Pr 70	co Leu	Leu	Asn	Met 75	Ата	Tyr	гàг	Pne	80	1111	HIS	ser	PIO	
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2228

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kka aca gga	ggg tct Gly Ser 35	gat gtc	ctc ca Leu Gl	g atg ca	g aac agt	gaa cac cat Glu His His 45	20′
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			Met Ser Val I 1	eu Glu Pro 5	
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gat agc cgt ggc Asp Ser Arg Gly 10 aca ccc cag aag Thr Pro Gln Lys	ccc cca cc Pro Pro Pr	c atc tca ct o Ile Ser Le 15 a atg agg co	Met Ser Val I 1 cc aca cac aca eu Thr His Thr ca gac tca ggg	eu Glu Pro 5 ggc atc cat Gly Ile His 20 tca cgg gga	281 329
gat agc cgt ggc Asp Ser Arg Gly 10 aca ccc cag aag Thr Pro Gln Lys 25 atg tgc ttc tgc Met Cys Phe Cys	ccc cca cc Pro Pro Pr act tcc ca Thr Ser Gl ccc tgt aa Pro Cys Ly	c atc tca ct to Ile Ser Le 15 a atg agg cc n Met Arg Pr 30 ag ggc ttt gg	Met Ser Val I 1 10 cc aca cac aca eu Thr His Thr 10 ca gac tca ggg 10 Asp Ser Gly 13 3 5 13 gg gaa ggg ggc	geu Glu Pro 5 ggc atc cat Gly Ile His 20 tca cgg gga Ser Arg Gly aac ata gta	
gat agc cgt ggc Asp Ser Arg Gly 10 aca ccc cag aag Thr Pro Gln Lys 25 atg tgc ttc tgc Met Cys Phe Cys 40 gag gct gga aag Glu Ala Gly Lys	ccc cca cc Pro Pro Pr act tcc ca Thr Ser Gl ccc tgt aa Pro Cys Ly agc ccc ca Ser Pro Gl	c atc tca ct to Ile Ser Le 15 a atg agg co n Met Arg Pr 30 ag ggc ttt gg rs Gly Phe Gl ia acc tgt go	Met Ser Val I 1 Ic aca cac aca eu Thr His Thr Ica gac tca ggg To Asp Ser Gly 35 Ig gaa ggg ggc Ly Glu Gly Gly 50 Iv bat gmc cct La Xaa Xaa Pro	ggc atc cat Gly Ile His 20 tca cgg gga Ser Arg Gly aac ata gta Asn Ile Val	329
gat agc cgt ggc Asp Ser Arg Gly 10 aca ccc cag aag Thr Pro Gln Lys 25 atg tgc ttc tgc Met Cys Phe Cys 40 gag gct gga aag	ccc cca cc Pro Pro Pr act tcc ca Thr Ser Gl ccc tgt aa Pro Cys Ly agc ccc ca Ser Pro Gl 60 gcc ttc tc	cc atc tca ct to Ile Ser Le 15 ta atg agg cc n Met Arg Pr 30 tg ggc ttt gg rs Gly Phe Gl ta acc tgt gc n Thr Cys Al	Met Ser Val I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ggc atc cat Gly Ile His 20 tca cgg gga Ser Arg Gly aac ata gta Asn Ile Val cca gcc ctg Pro Ala Leu 70 cag ac	329 377
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Ser Phe Xaa Lys Gln Ala Leu Ser Gln Ala Gln Lys Ser Ile Asp Arg 15	ago tto sot aag cag goo otg too cag goo cag aag tot att gao agg	280
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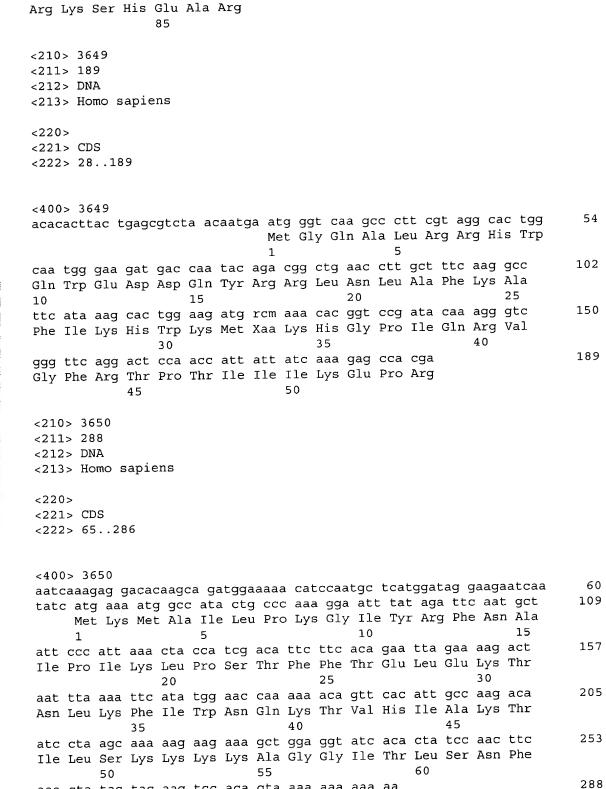


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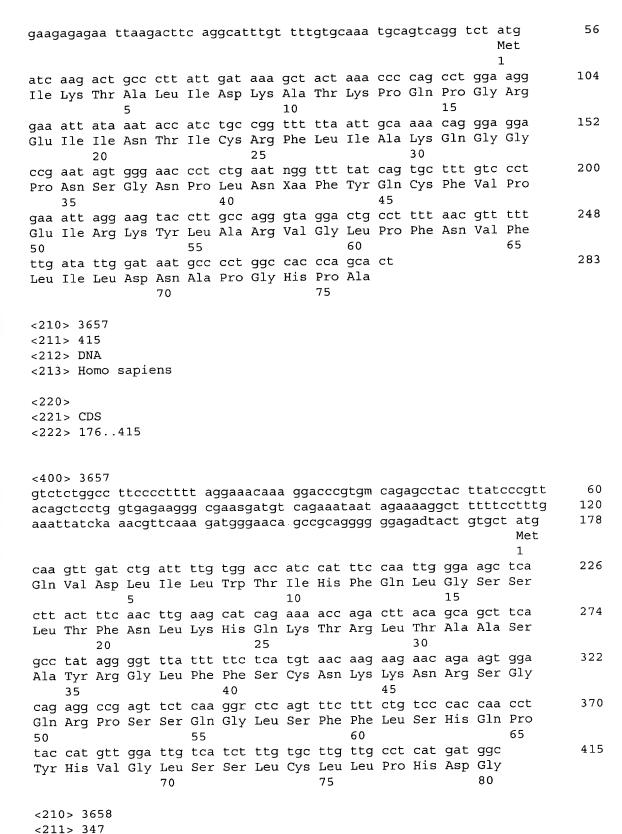


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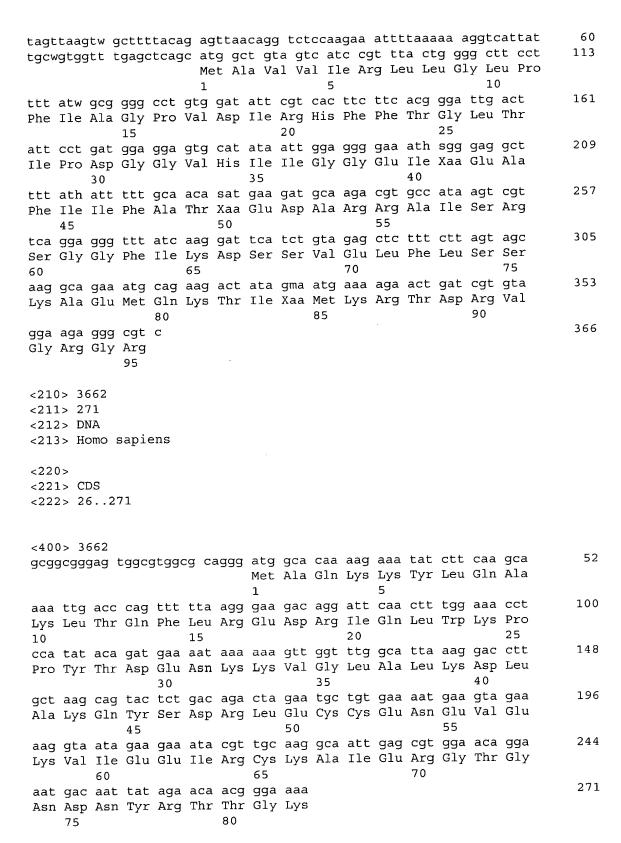


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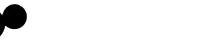


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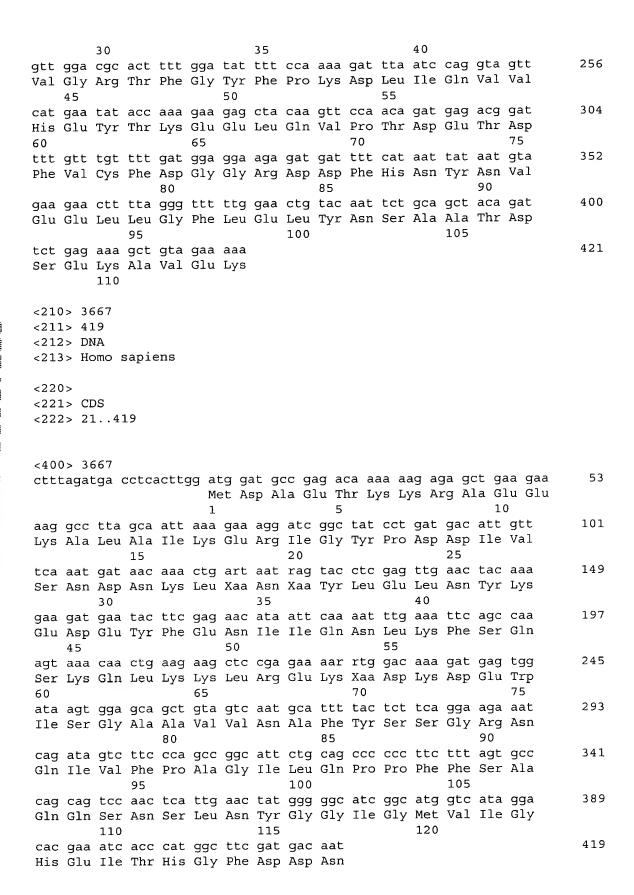
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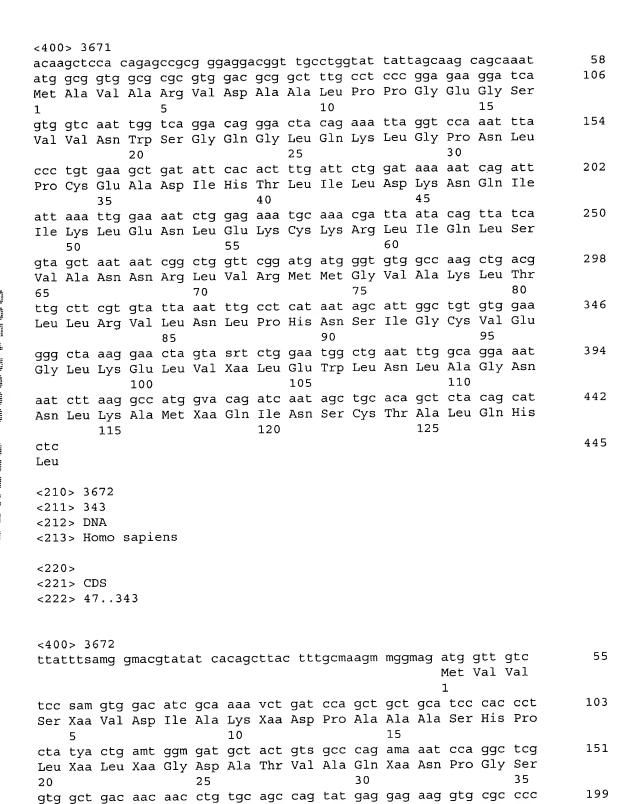


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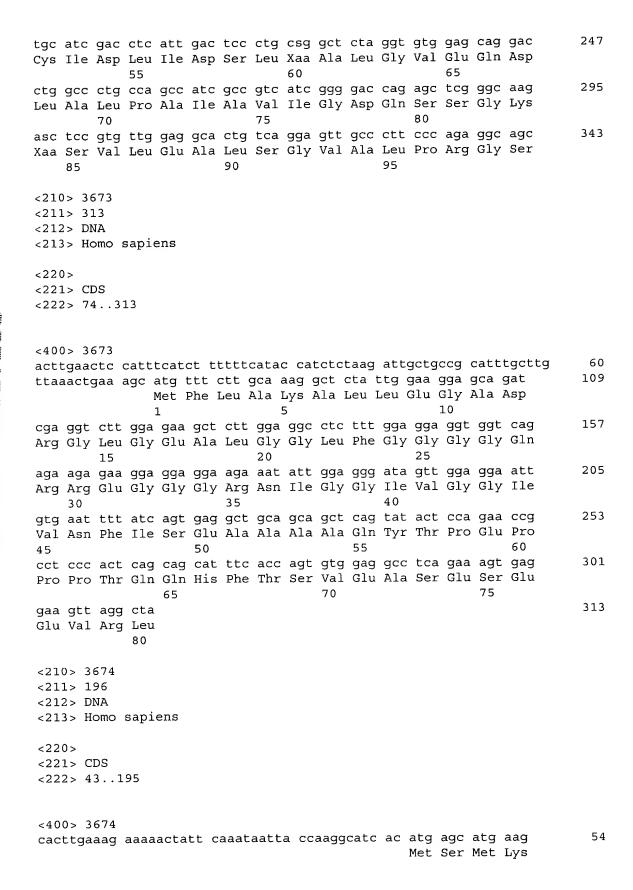


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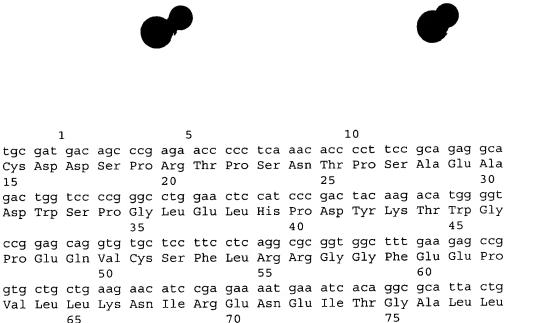
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373

321

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	1	5 c atg cta aaa act ctc aat	aat 219
Ala Phe Asn Lys Ile	Gln Gln Cys Ph	e Met Leu Lys Thr Leu Asn 20	Asn 25
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Lys Pro Thr Ala Asn 45	Ile Ile Leu As 50	n Gly Gln Lys Leu Glu Ala 55	Pne
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Leu Asp Lys Leu Arg Ser Val Thr Thr Glu Pro Ser Ser Leu Lys Ser





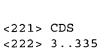
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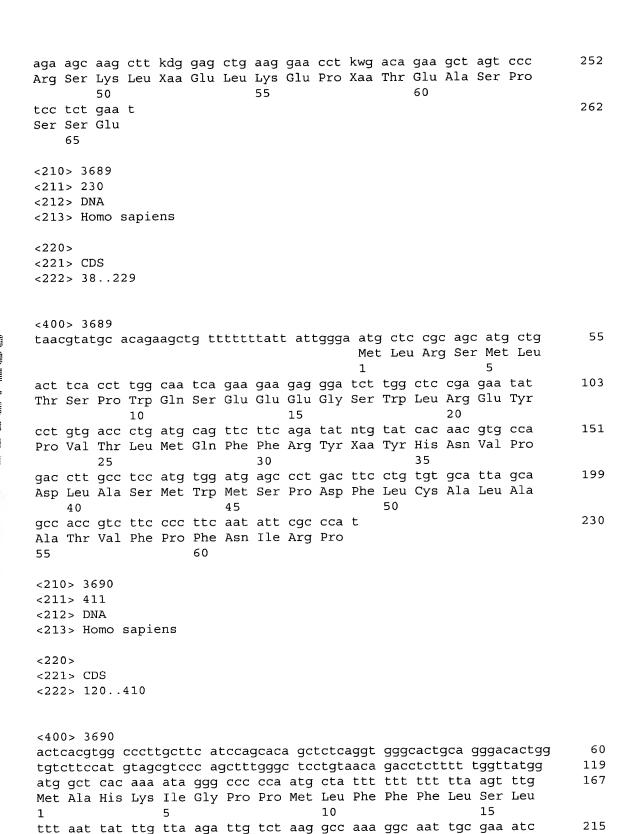
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Leu Ser Ile Ser Ser Thr Phe Ser Val Pro Leu Ser Ser Arg Ala Thr	
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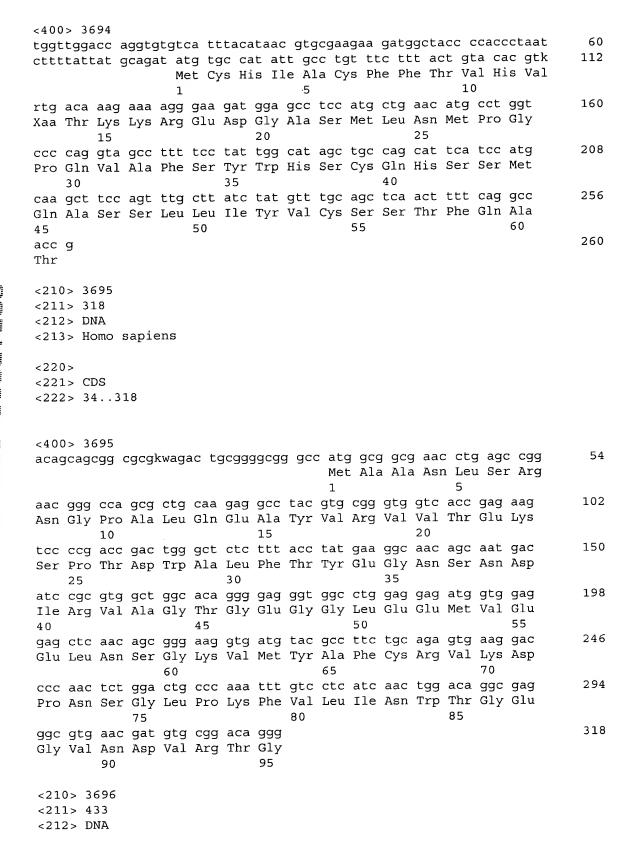


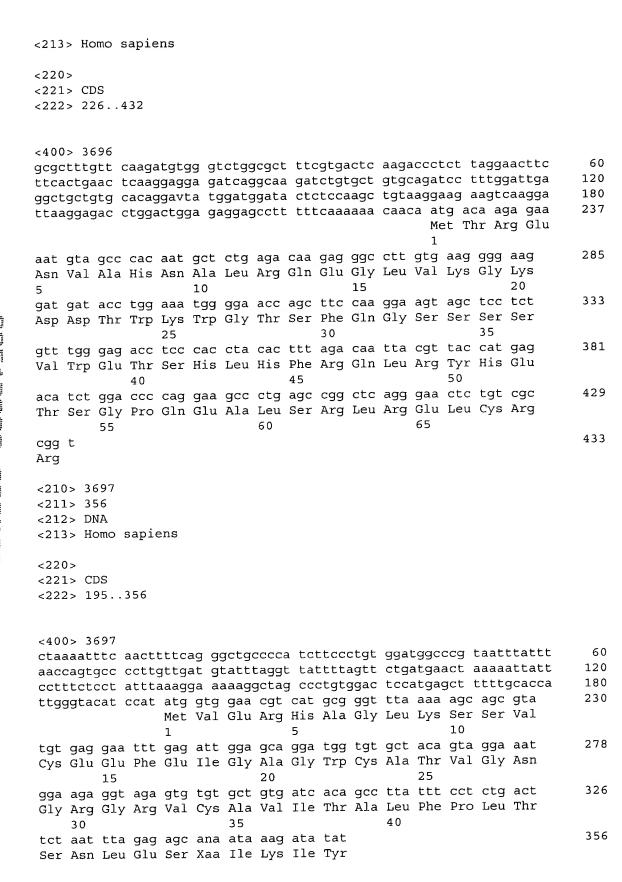
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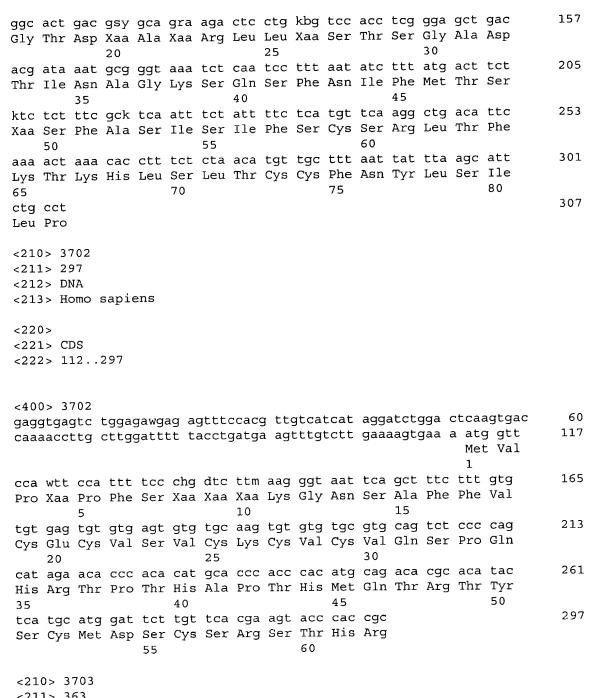
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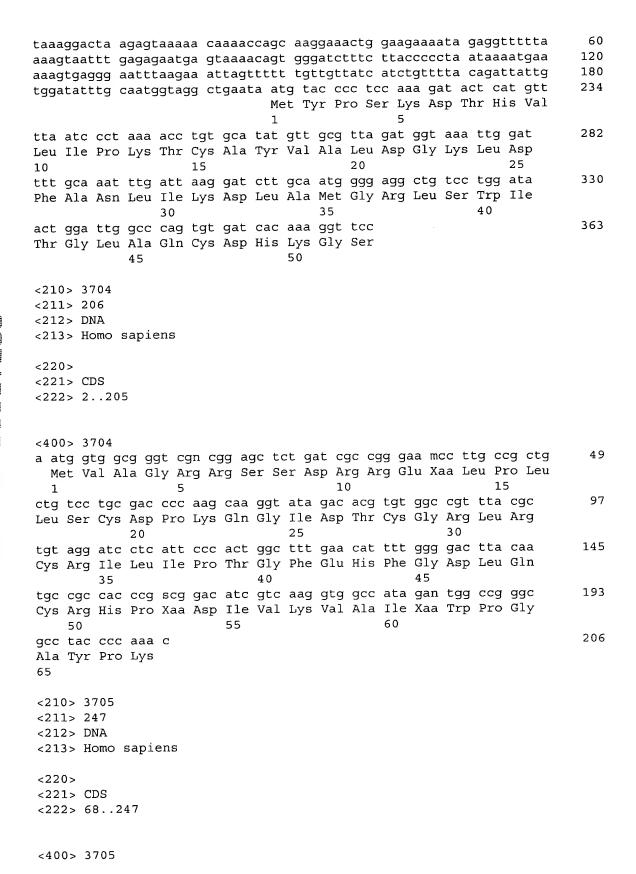
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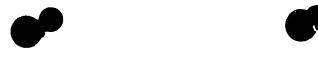
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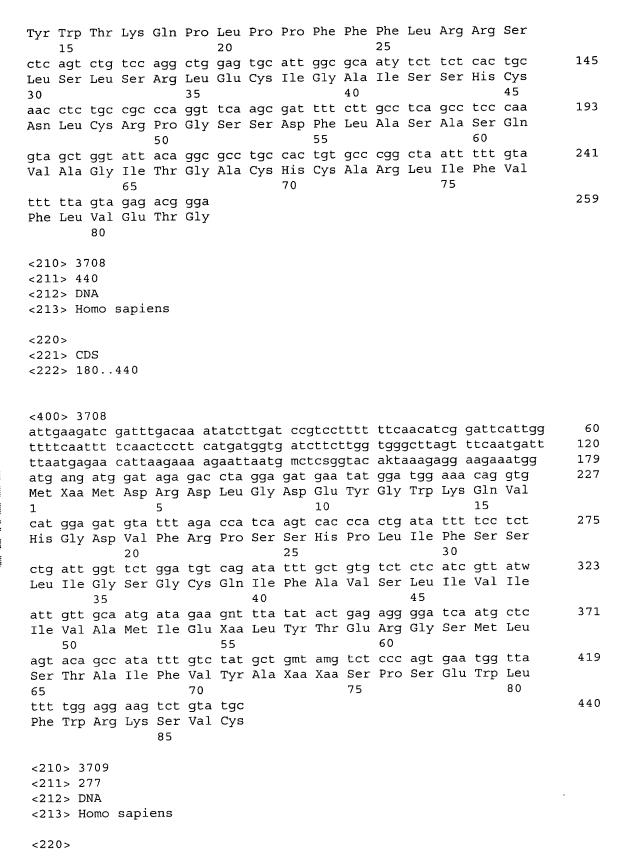
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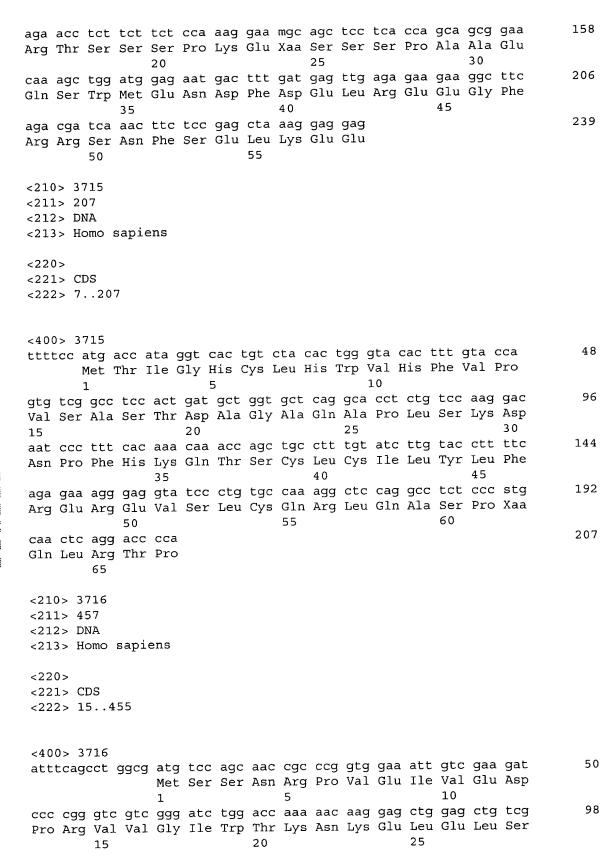
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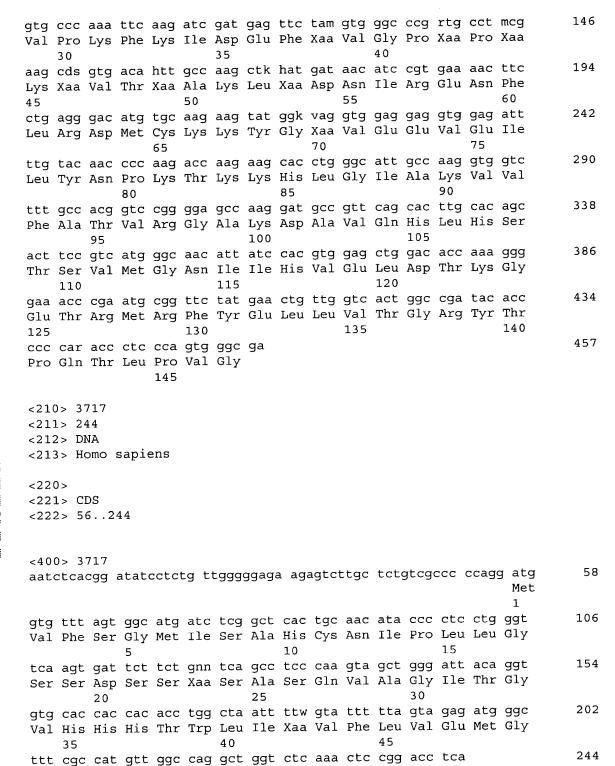


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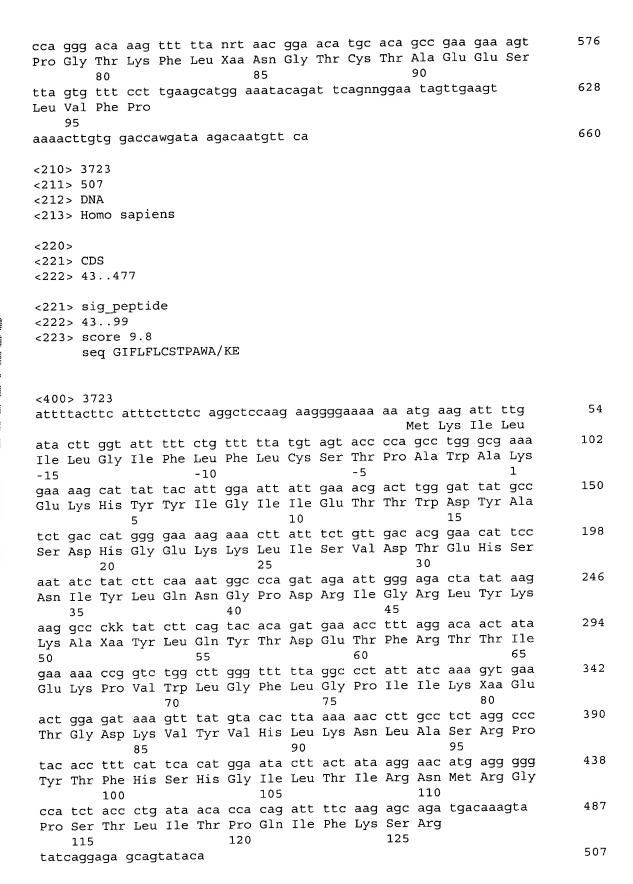
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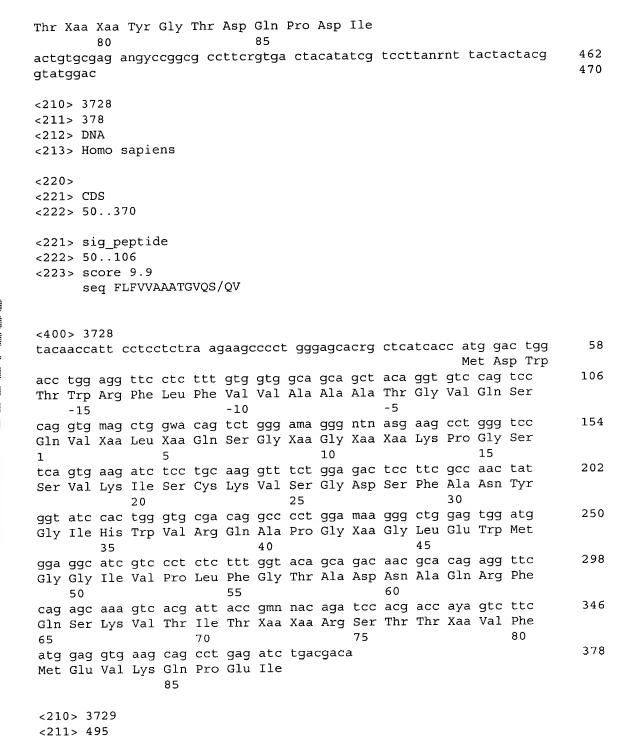
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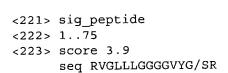
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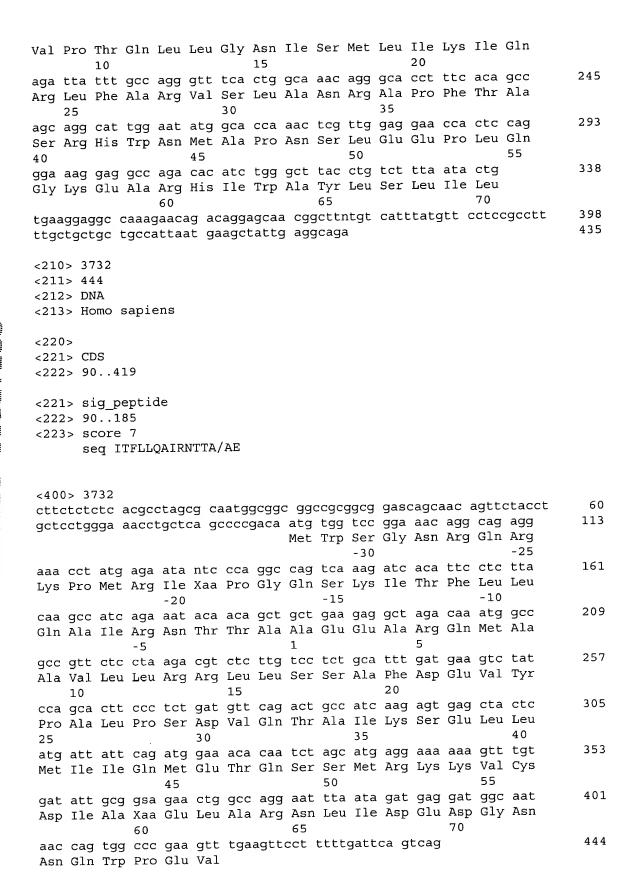




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10 15 20	
add the day are are are recorded and are out the second	92
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Leu L	ys .	Asn	Ala	Ala	Phe		GIY	Pro	GIY	vaı	Leu	GIN	Ala	1111	Arg	
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Met Arg Phe Leu Ala Ala Thr Phe Leu Leu Leu Ala Leu Ser Thr												
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Gln Leu Ser Lys Gly Gln Ser Tyr Ser Val Asn Val Thr Phe Thr Ser												
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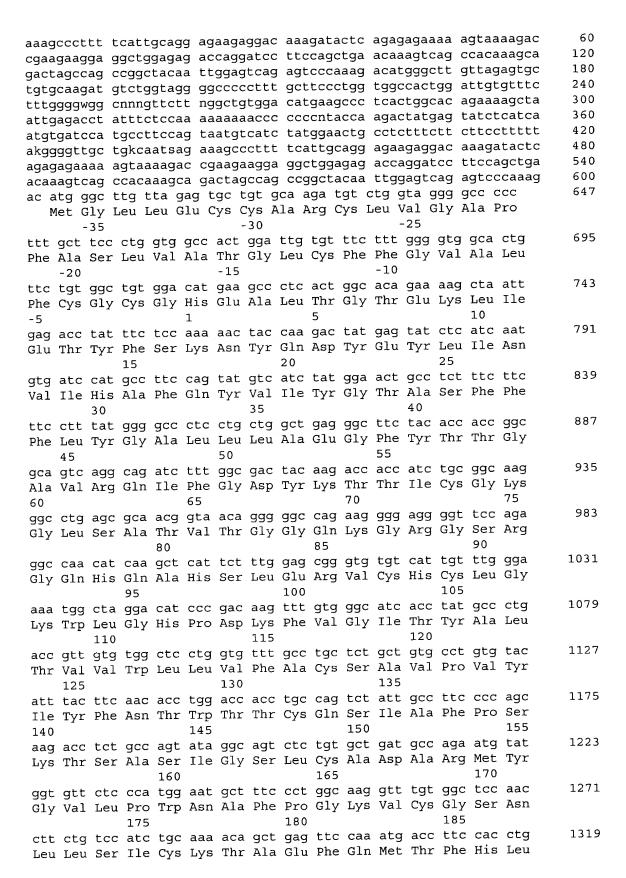
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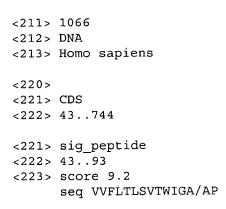
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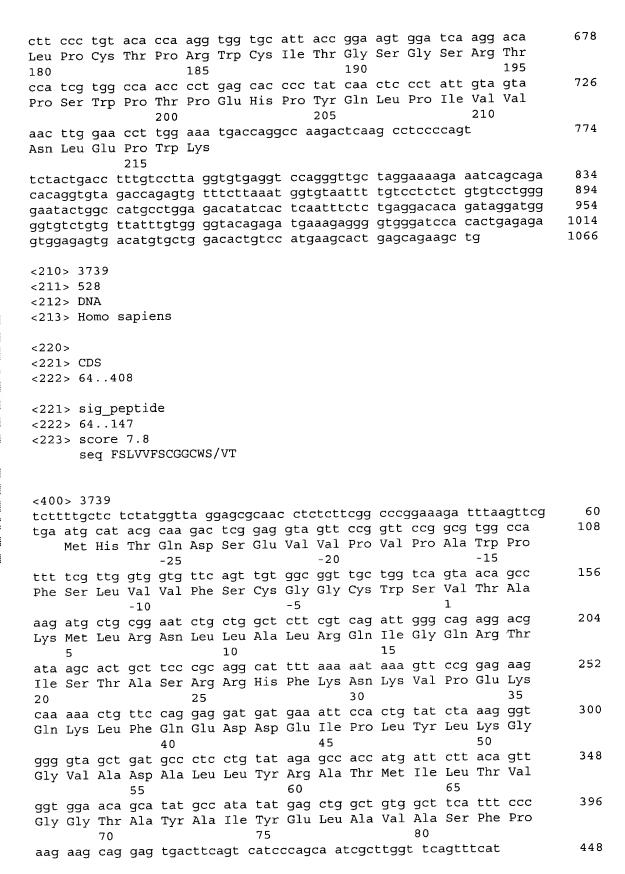
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	5		_			10					15		His			
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пуъ	PLO	GIY	55	тар	bei	DCI	1115	60	Deu		204		65			
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Thr	Cys		Gly	Asp	Leu	Gly		His	Leu	Ser	Val		Val	Cys	Phe	
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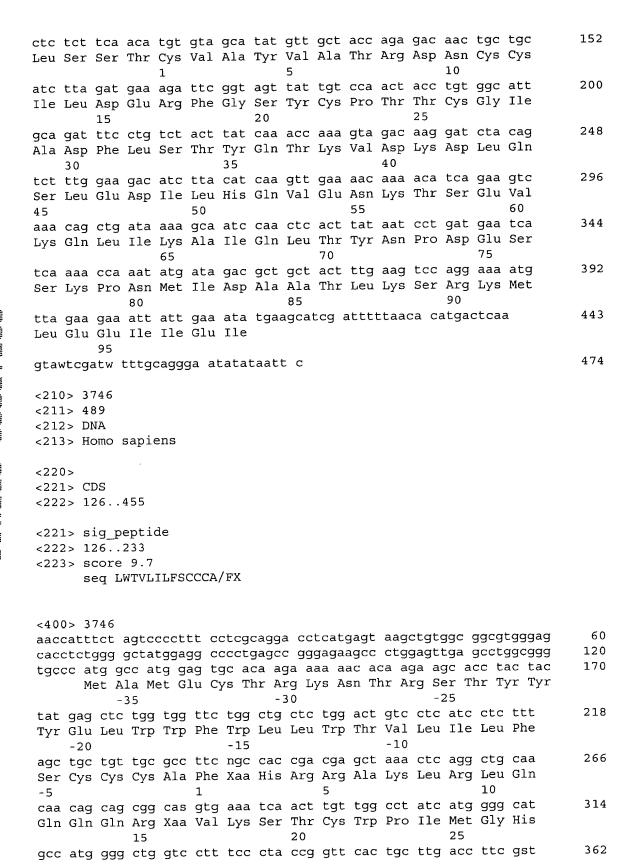
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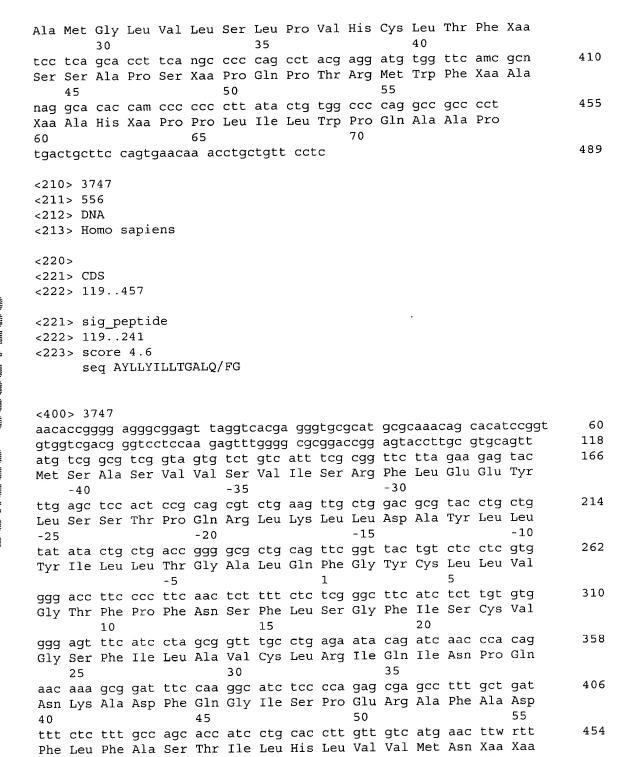
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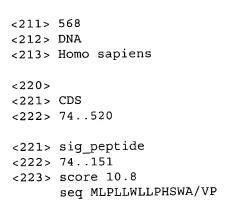
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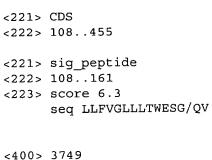
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Gln Met Leu Pro Leu Leu Trp Leu Leu Pro His Ser Trp Ala Val Pro														
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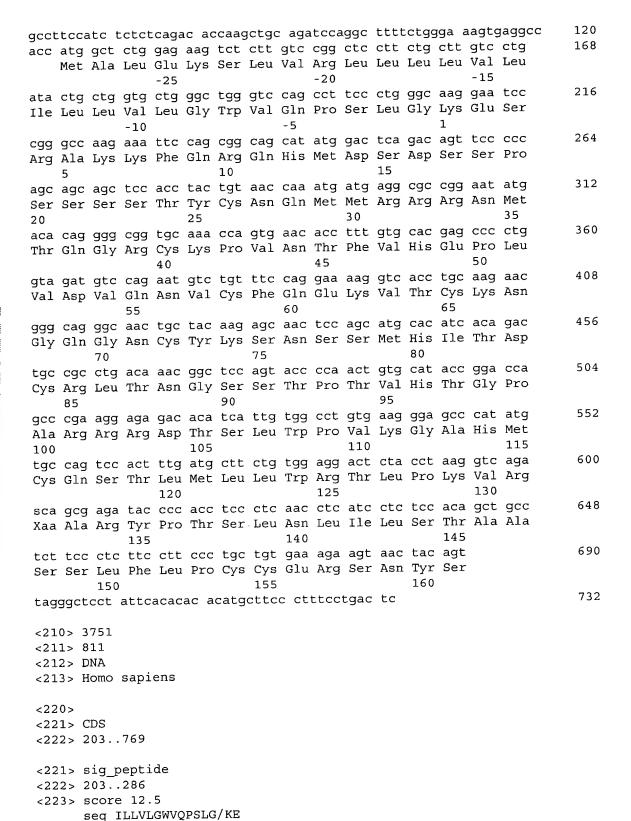
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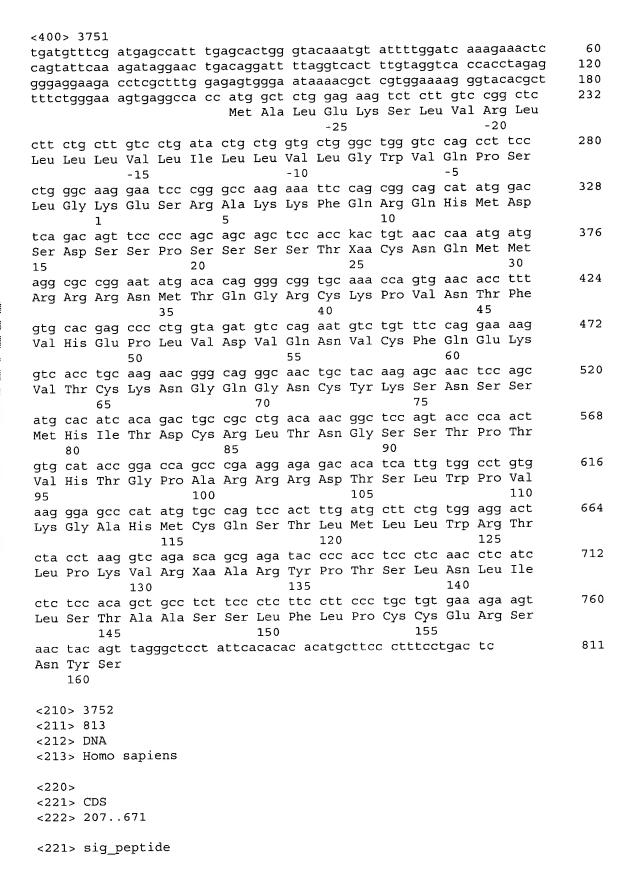
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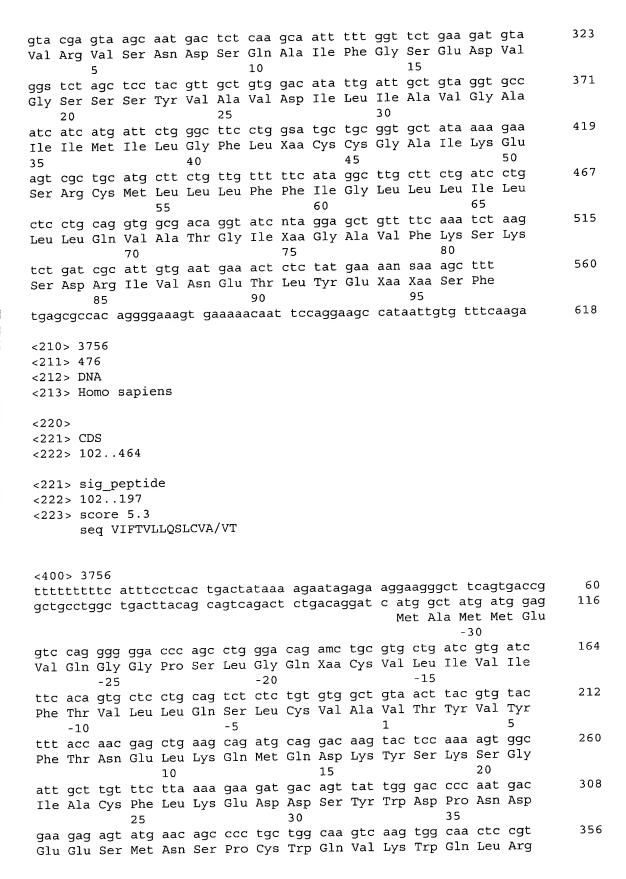
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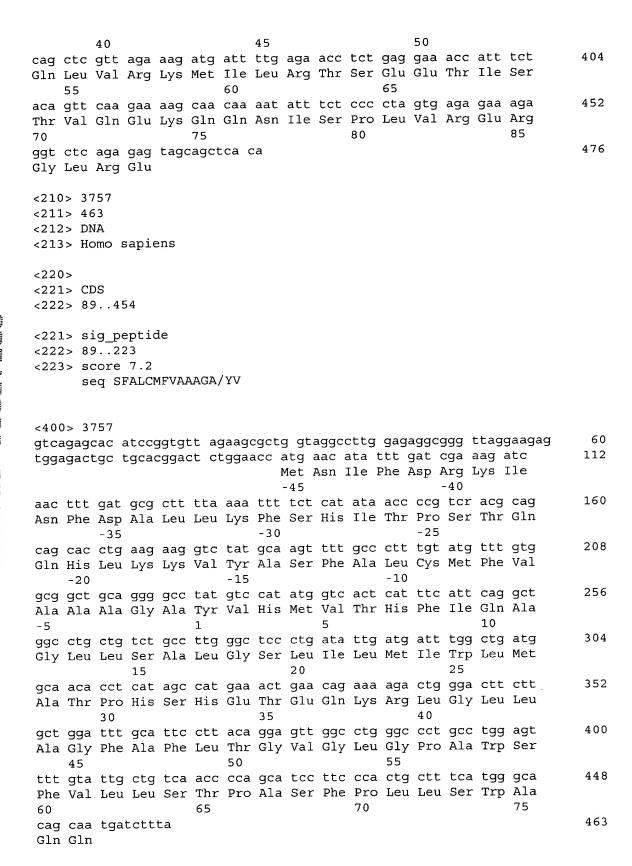
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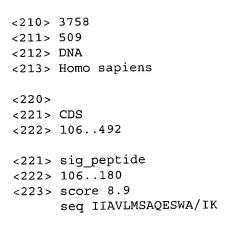
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498

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Leu His His His Lys His Lys Gly Gln His Arg Gln Gly His Pro

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Cys Ile Tyr Val Thr Ile Xaa Ser Cys Xaa Arg Leu Ala Arg Gly Val	
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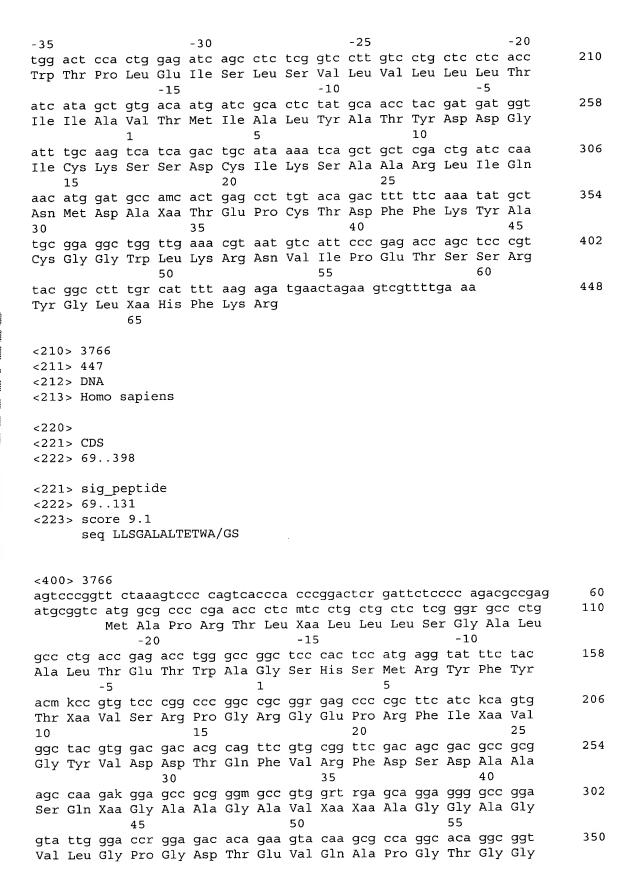
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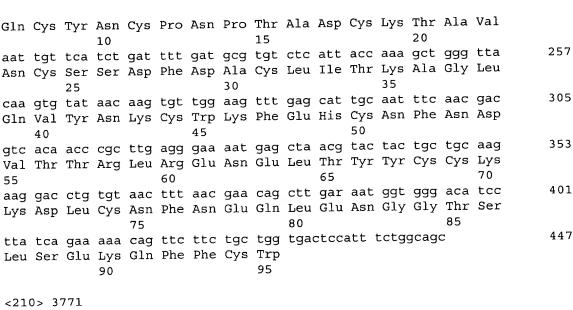
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Gly	/ Ile	Ser	Ala	t Thr	Ala	Ala	Lev	ı Arg	Pro) Ala	a Ala	Cys	Gly	/ Arc	Thr	
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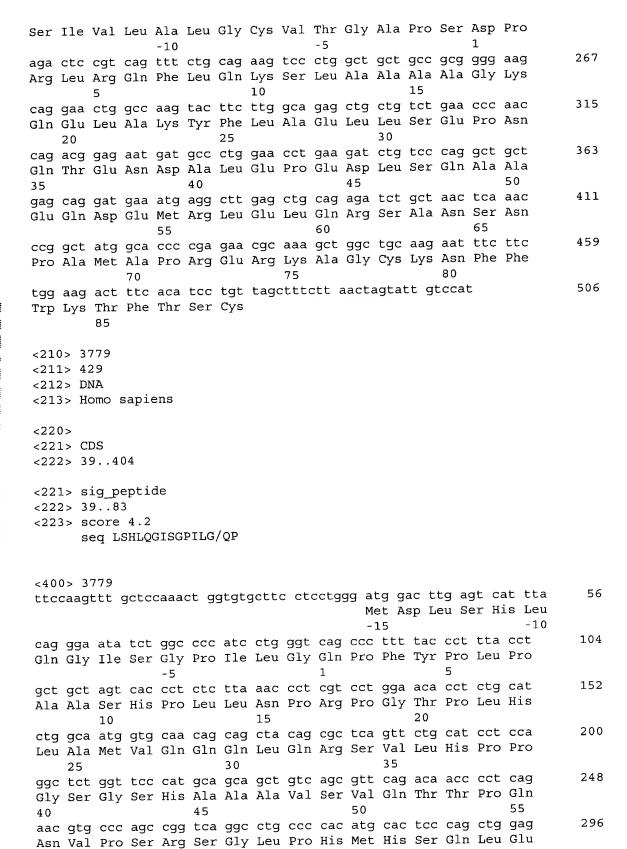
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gcc Ala	ctg Leu	gcg Ala	gtg Val	tgt Cys -5	ggc Gly	agc Ser	tgg Trp	ggg ggg	ctg Leu 1	aac Asn	gag Glu	gag Glu	gag Glu 5	cgg Arg	ctg Leu		99
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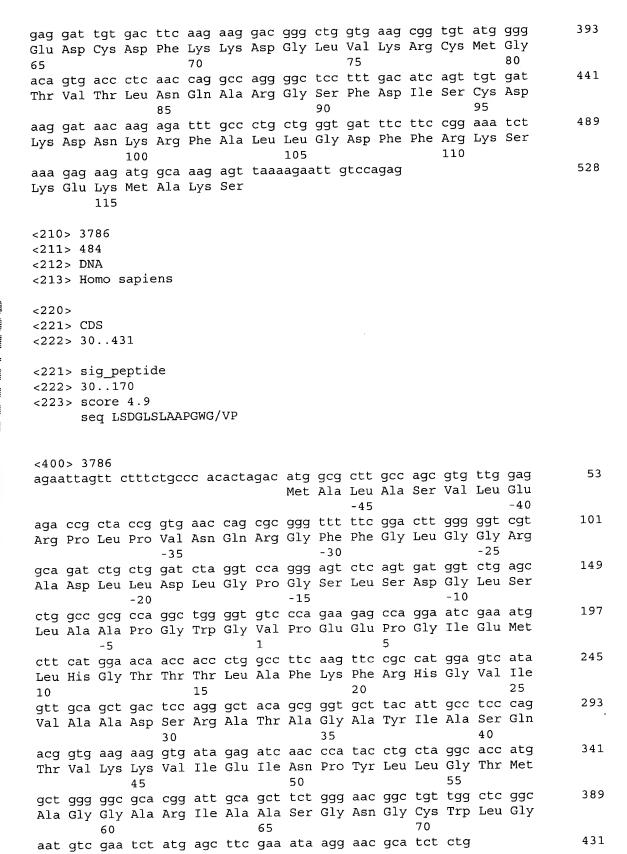
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Val Ile Ser Asp Met Glu Val Ile Glu Leu Asn Lys Cys Thr Ser Gly	
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Glu Phe Asn Ala Ser Leu Pro Arg Arg Arg Asp Pro Ser Leu Glu Glu	
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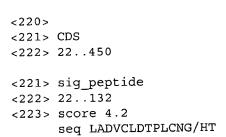
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Pne	Leu	ьeu	ьeu		PHE	ser	ьеи	1111		FIIC	JCI	val		501	
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1> 52	28														
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		anie	ns												
J / 110		apic													
^								•							
2 > 55	55	LO													
1> s:	ig pe	eptic	le												
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acc	atg	aag	acc	caa	agg	gat	aac	020						+ ~ ~	
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Ser Pro Val Ala Pro Lys G	-20	-15
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Asp Val Cys Leu Asp Thr P	Pro Leu Cys Asn Gly	His Thr Thr Gly Met
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gat gtc ctc tgg gca ggg a	acc ccc atg gtg act	atg cca gga gag act 195
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Leu Ala Ser Arg val Ala A	30	35
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Leu Gly Thr Asp Leu Glu T		
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aag caa aga ata tct agc c Lys Gln Arg Ile Ser Ser F	Dro Leu Dhe Asn Thr	Lvs Gln Tvr Thr Met
Tys GIR Arg Tie Sei Sei F	80	85
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Lys Ile Cys Gly Arg Ser Val Val Ser Trp Met Gly Ser His Asn His 30 35 40 45	
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Ser Leu Leu Pro Leu Ala Gly Gly Gly Ala Phe Phe Leu Ala Pro Cys	
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Cys Ser Trp Ala Gly Asp Cys Pro Thr Pro Phe Phe Phe Ile Leu Cys	
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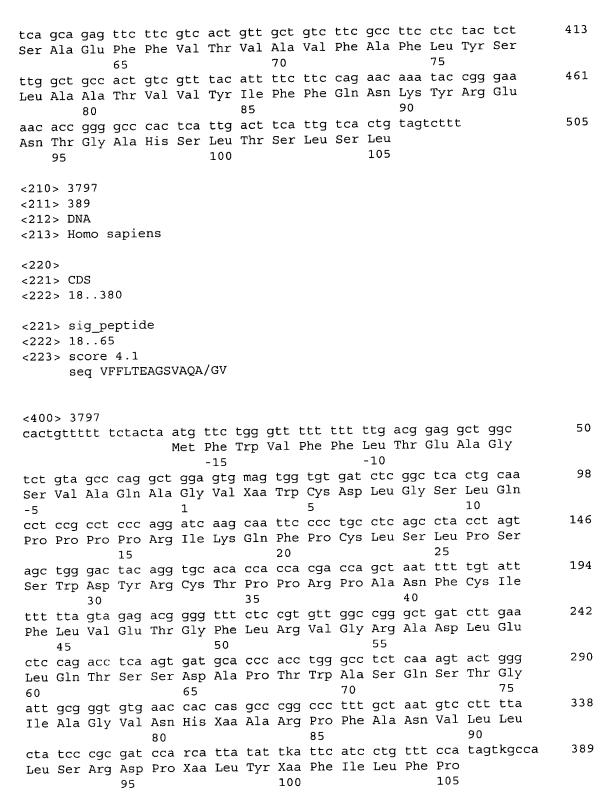


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145

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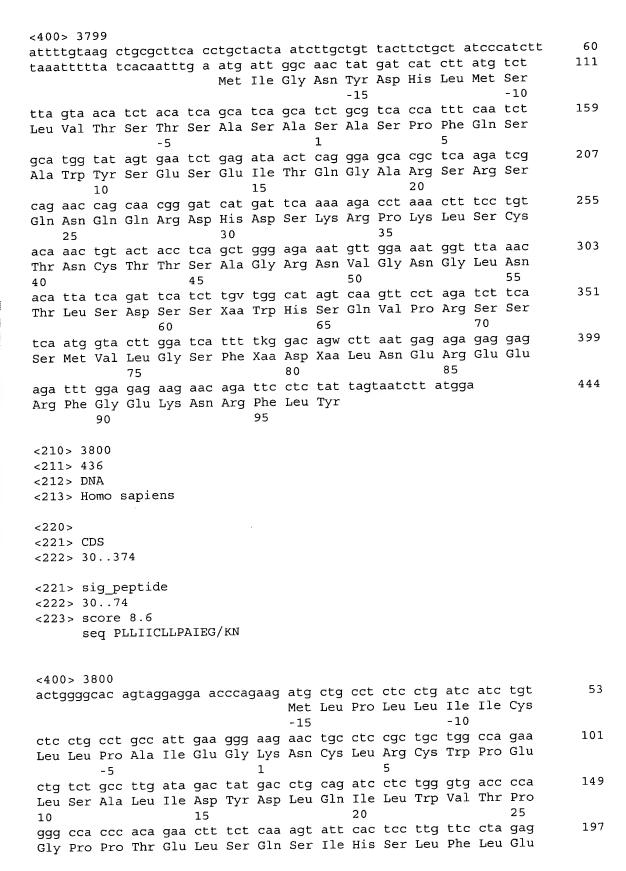
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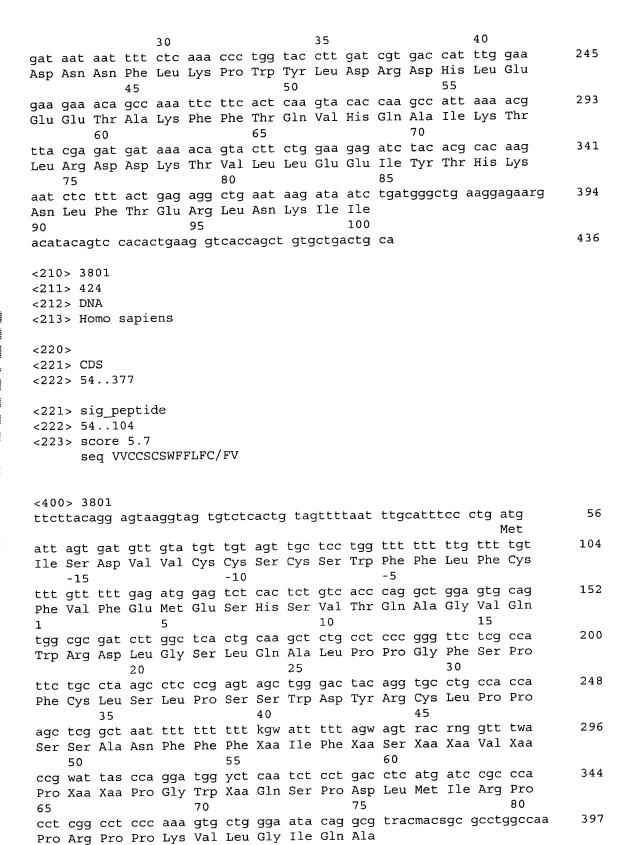
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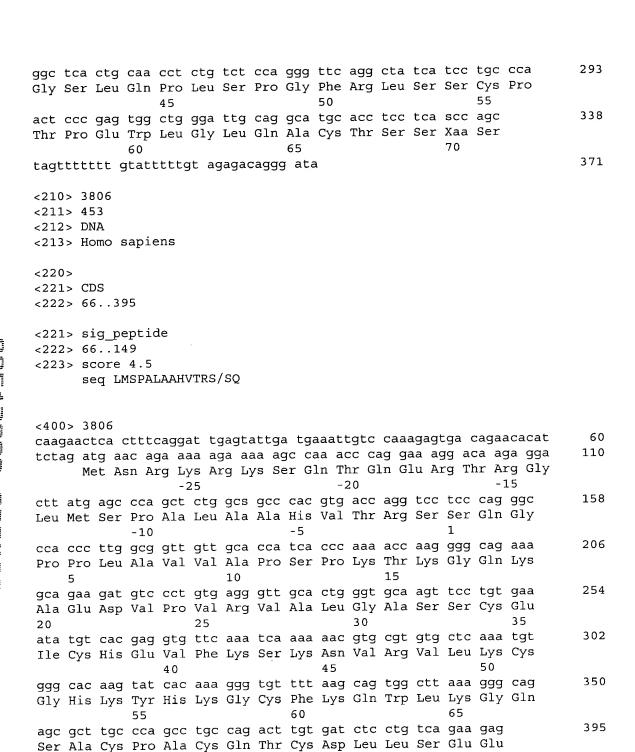
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nsp	10	וופח	, ucu	DCI	DCI	15	* Y ±	1110			20				5	
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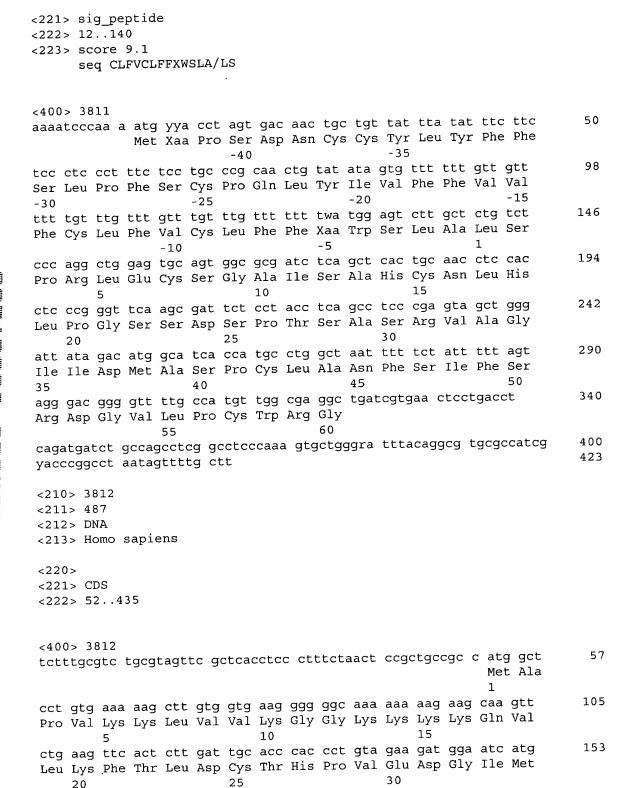
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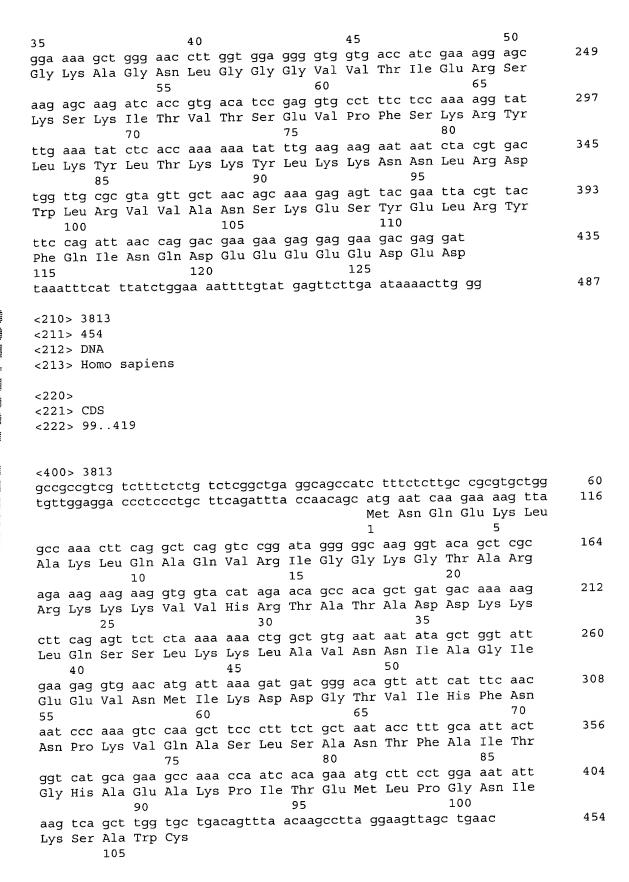
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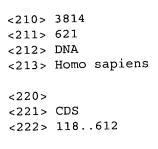


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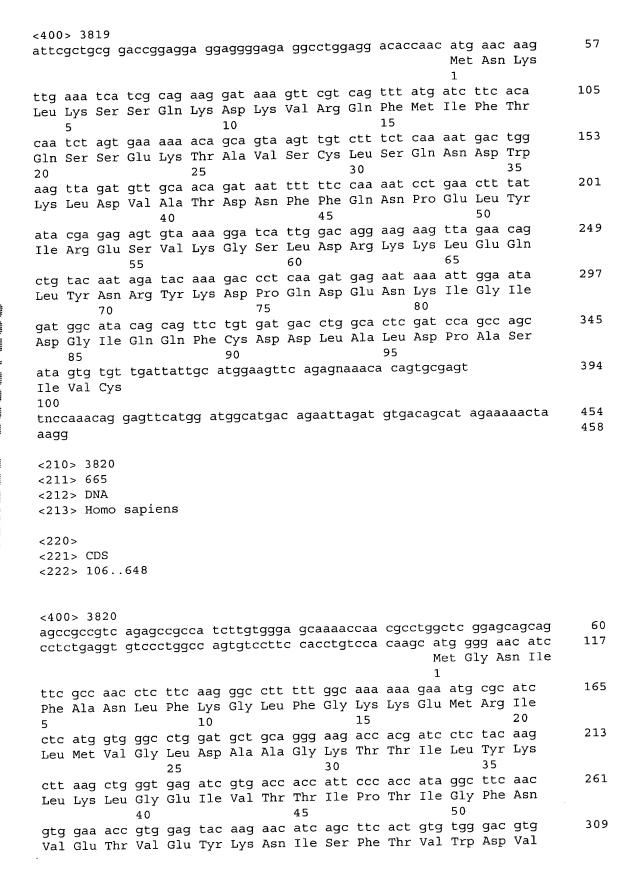
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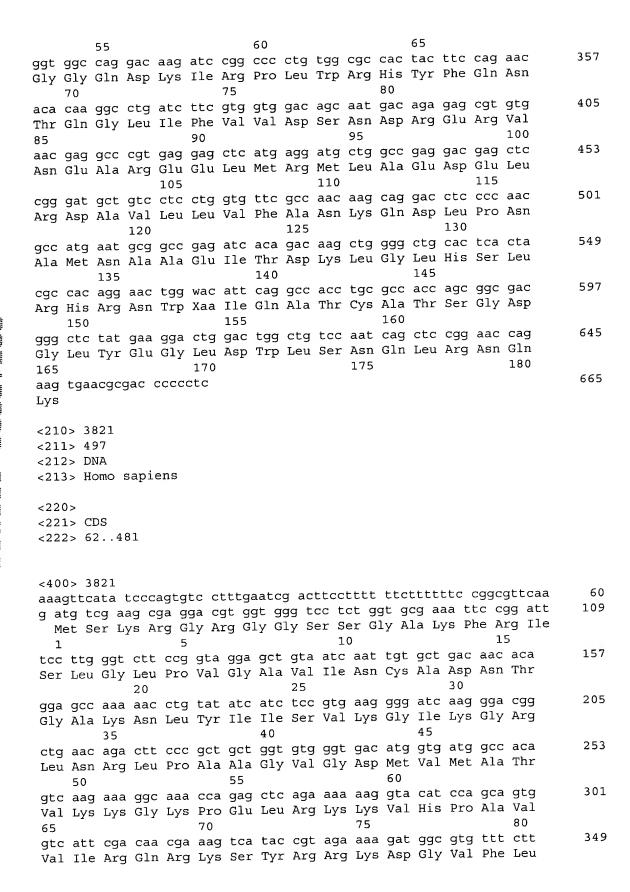
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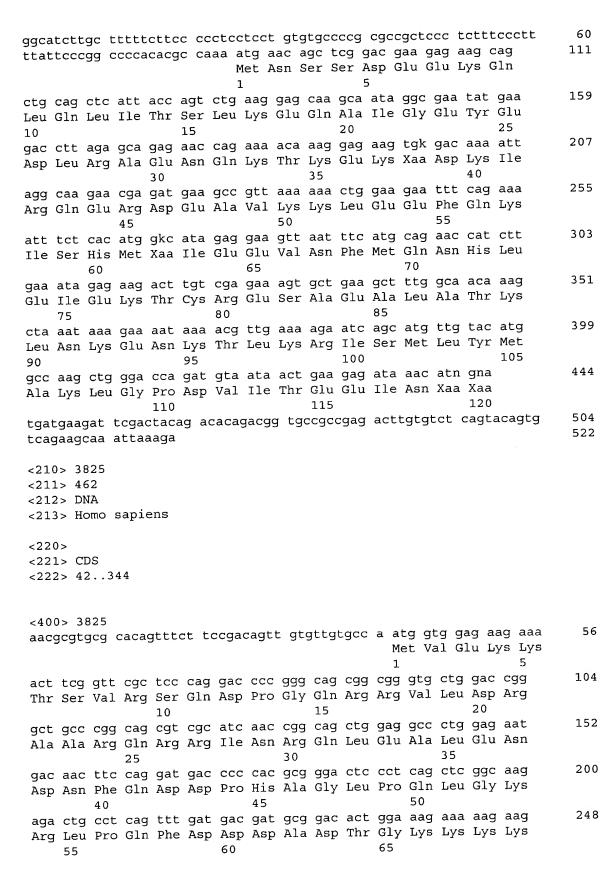
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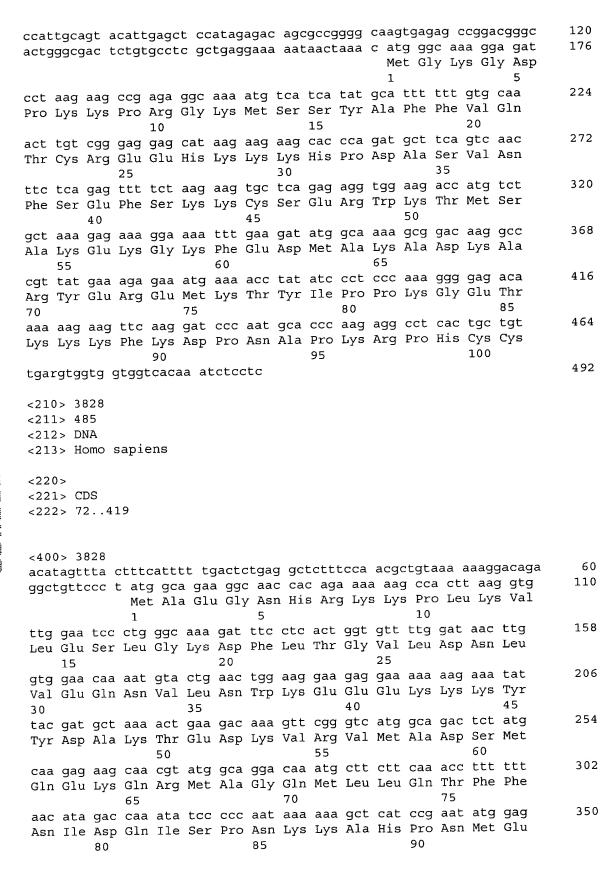
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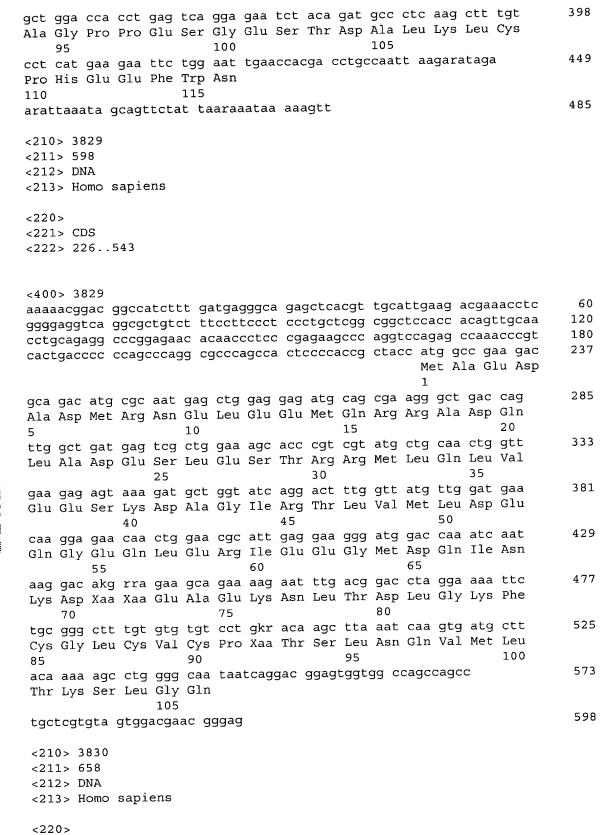
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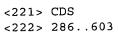
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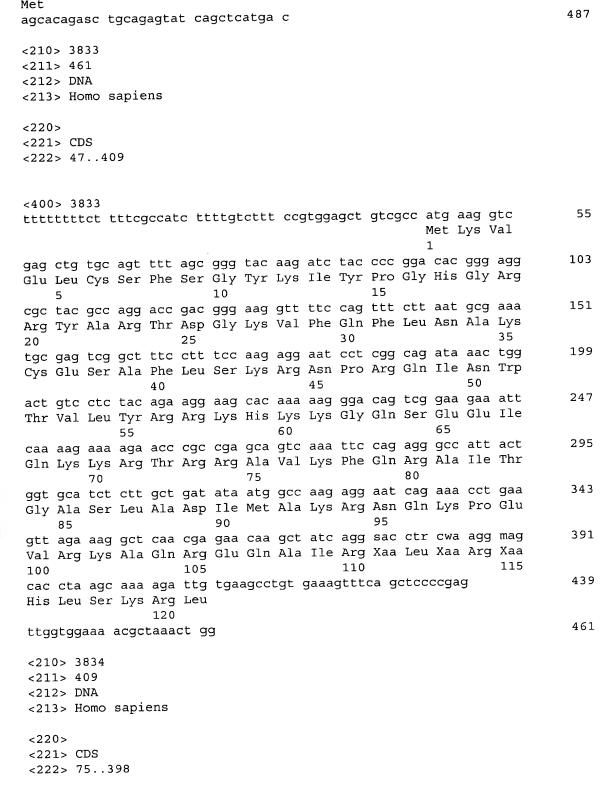


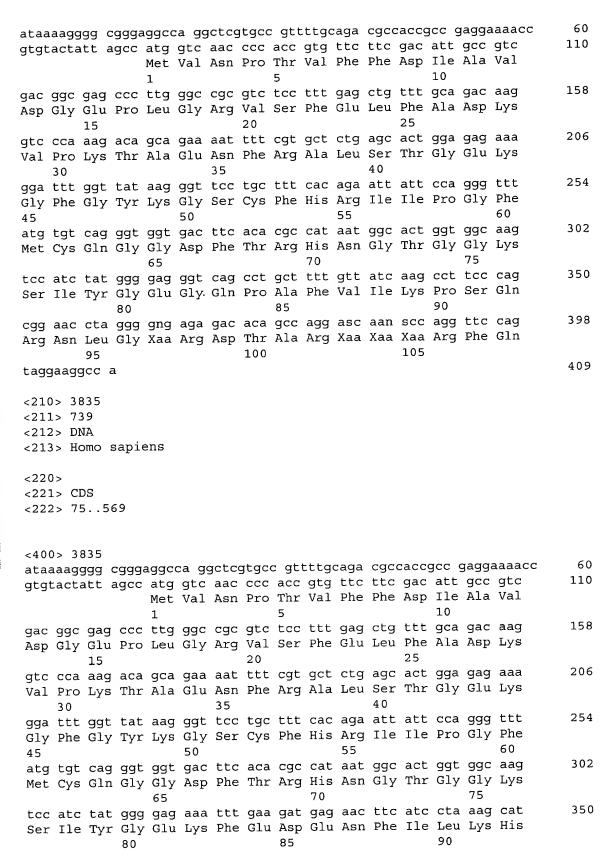


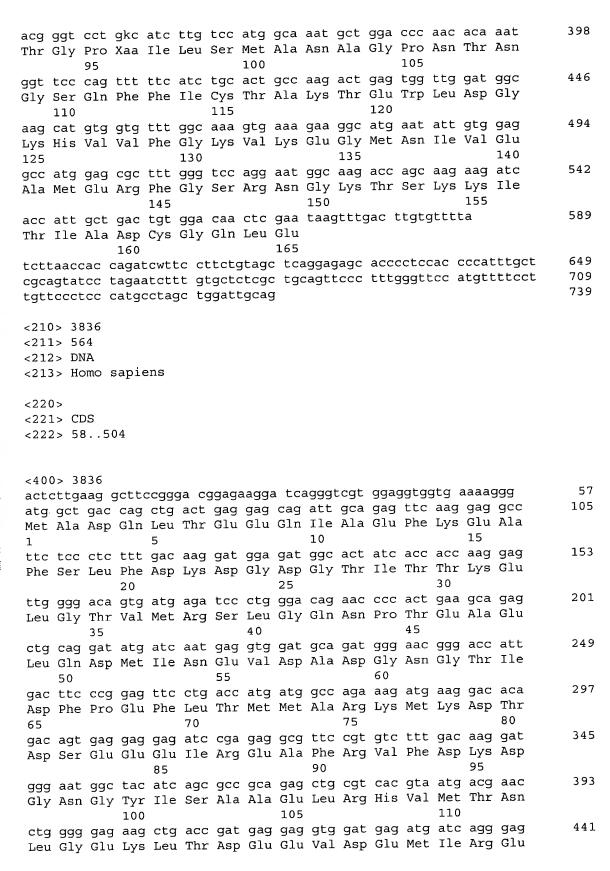
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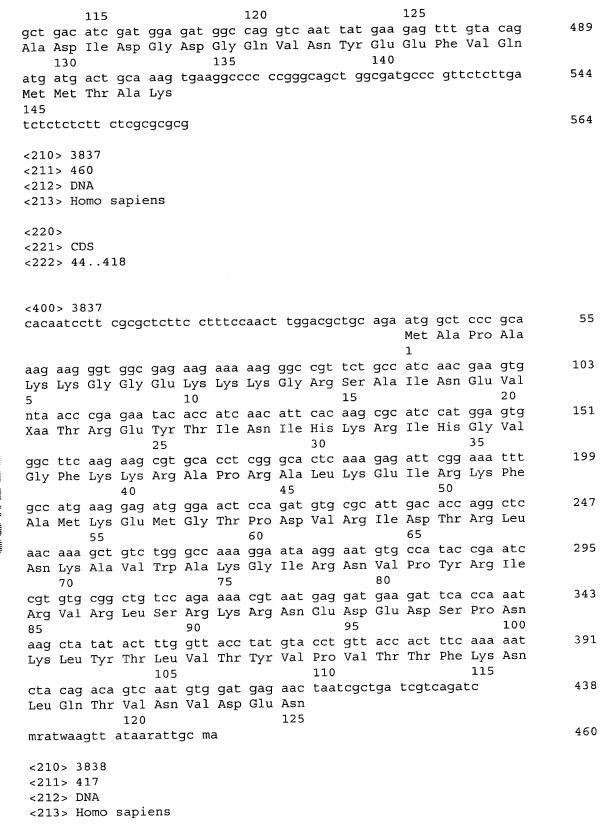
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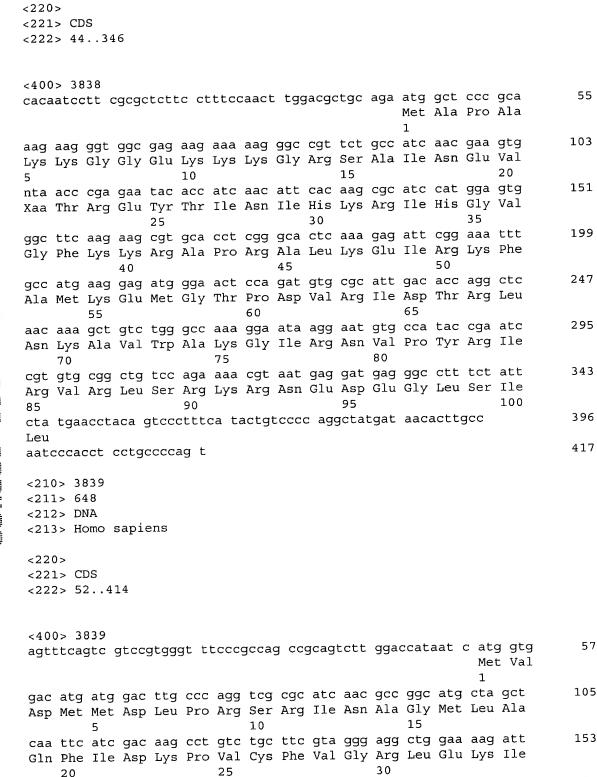
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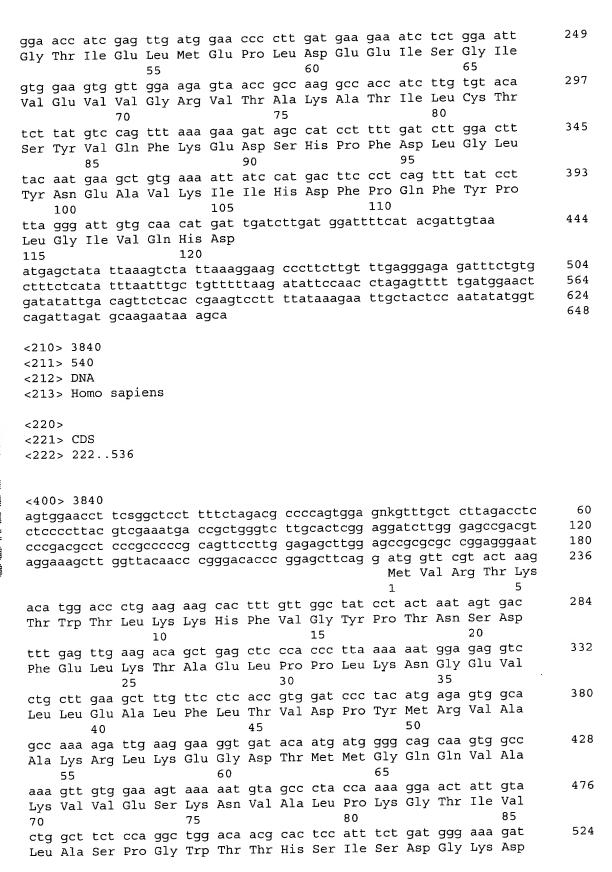




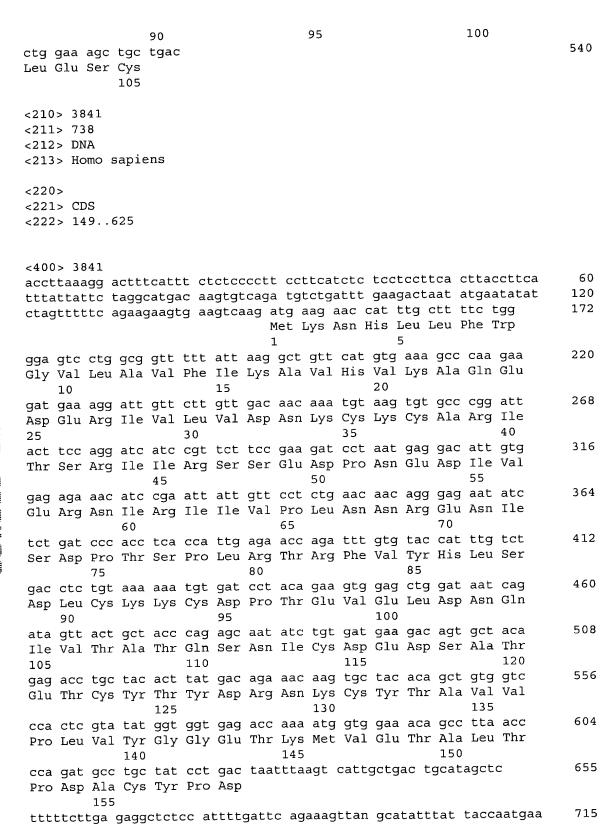
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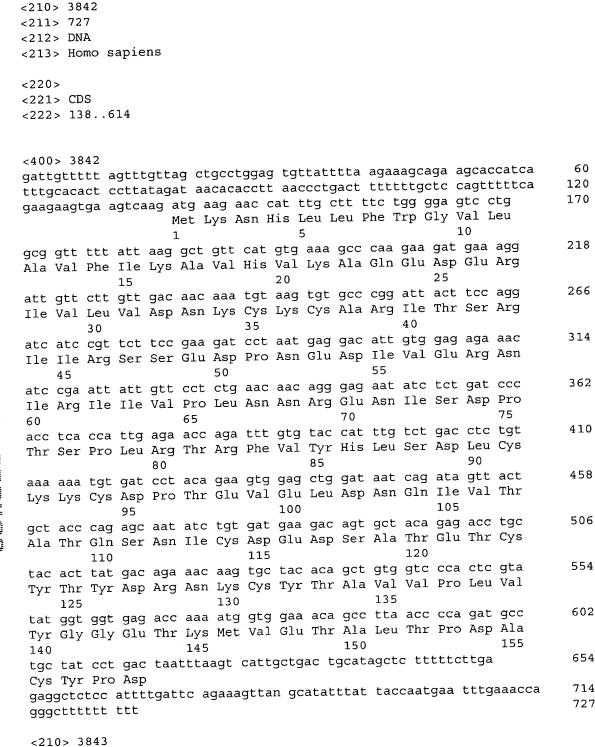
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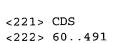




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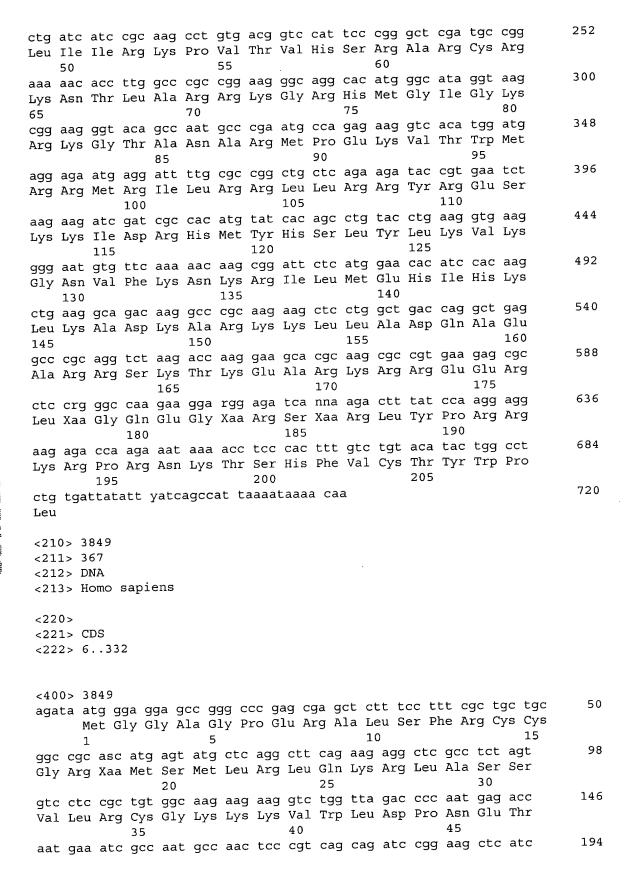
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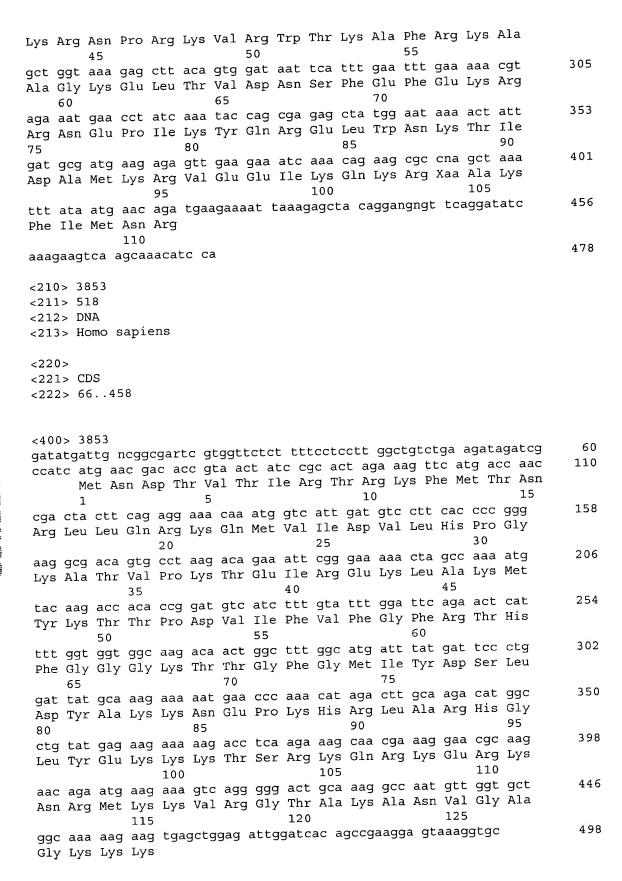


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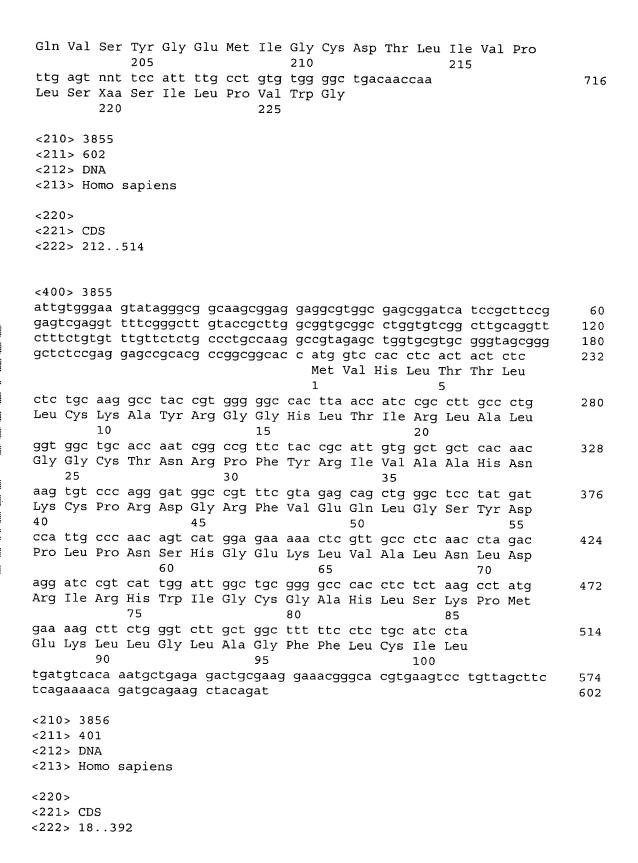
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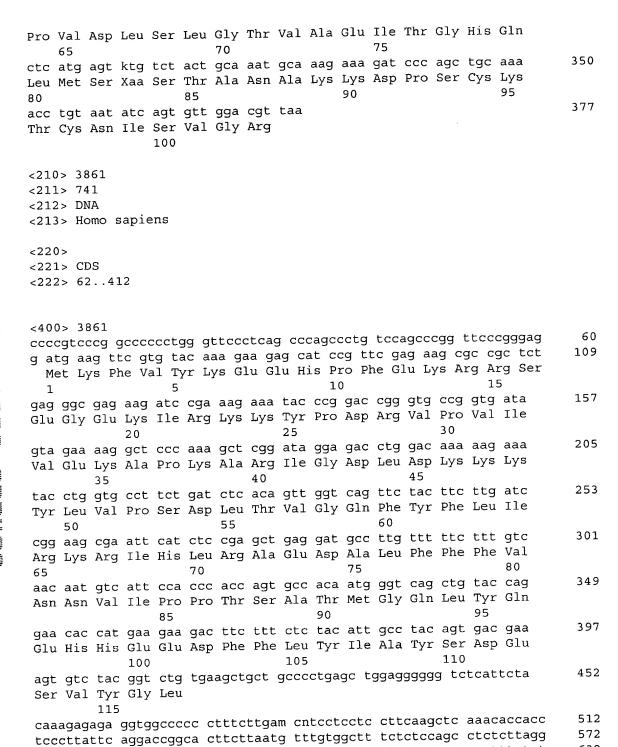
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Gln	Arg	Asp) Ala	Glu	Glu	Leu	Glu	Lys	Trp	Ile	e GIn	Glu	гуз	ьeu	Gln 65	
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att	gca	tct	gat Asp	gag	aat	tat	aaa	. gac	Dro	. acc	, aac - Aen	Leu	Glr	ı Glv	aag Lvs	-
He	Ala	Ser	Asp	70	ASII	туг	цуъ	rsb	75	, 1111	1101			80	1	
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Āla	Ile	Va.	l Lys	Lei	ı Asp	Glu	Leu	ı Glu	Thr	:						
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Leu Asp Leu Glu Tyr Ala Lys Thr Asp Ile Asn Cys Gly Thr Asp Leu 20 25	
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atg ttt tat ata gaa atg gac cca cca gca ctg cct cct aaa cca cca	200
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Lys Pro Thr Thr Val Ala Asn Asn Gly Met Asn Asn Xaa Ser Leu	
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Gln Asp Ala Glu Trp Tyr Trp Gly Asp Ile Ser Arg Glu Glu Val Asn	
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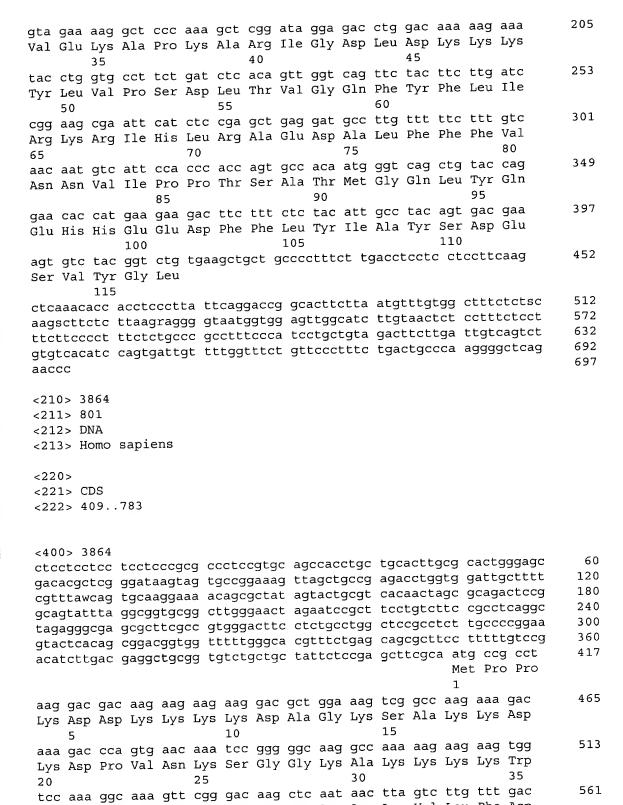
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Met Pro Cys Phe Ser Leu Ser Thr Met Ser Phe His 1 5 10	
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609

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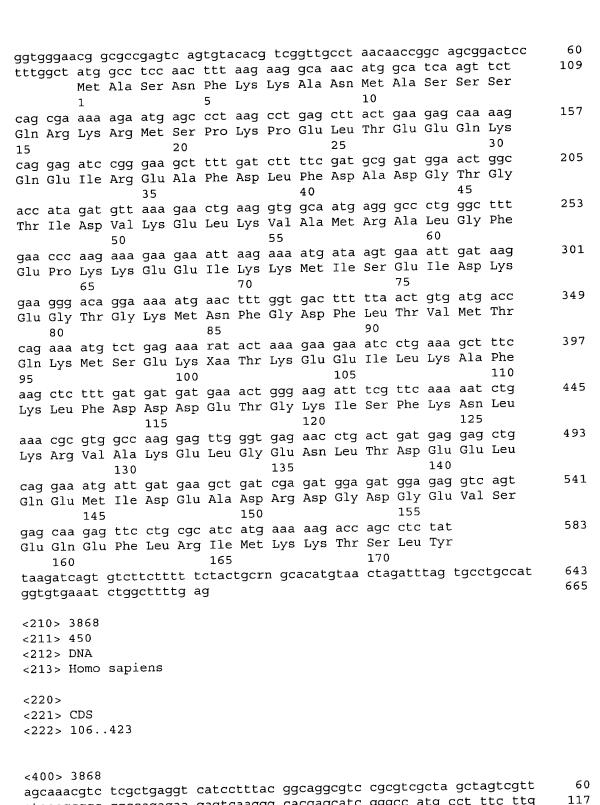
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The Pro Ala Val Val Ser Glu Arg Leu Lys 11e Arg Gly Ser Leu 70				55					60					65			
The Pro Ala Val Val Ser Glu Arg Leu Lys 11e Arg Gly Ser Leu 70	ata	acc	cca	gct	gtg	gtc	tct	gag	aga	ctg	aag	att	cga	ggc	tcc	ctg	657
70 75 80 gcc agg gca gcc ctt cag aga ctc ctt agt aaa gga ctt atc aaa ctg 705 81 Arg Ala Ala Leu Gln Glu Leu Leu Ser Lys Gly Leu Ile Lys Leu 95 gtt tca aag cac aga gct caa gta att tac acc aga aat acc aag ggt 753 Val Ser Lys His Arg Ala Gln Val Ile Tyr Thr Arg Asn Thr Lys Gly 110 115 100 105 110 115 129a gat gct cca gct gct ggt gaa gat gca tgaataggtc caaccac 801 Gly Asp Ala Pro Ala Ala Gly Glu Asp Ala 120 125 2210> 3865 2211> 416 2210> DNA 2213 Homo sapiens 2220> C221> CDS 2221> CDS 2220> C221> CDS 2220> C221> CDS 2220> C221> CDS 2220> C221> CDS 2210 Agat act gat act tac tcttg ata acg gtg gaa cag att tct ctg acg acg att act cac acg aga gag agg ga agg ggg gaa cag at acg att act aca cttg gcl In Ine Thr Arg Glu Gly Lys Gly Ala Ser Ala Arg Asn Thr Asn Leu 15 20 222 Aga act act caa acg gag aag ggt gct tct gcc aga aat act aac ttg gcl In Ine Thr Arg Glu Gly Lys Gly Ala Ser Ala Arg Asn Thr Asn Leu 25 20 25 30 40 22 25 30 40 23 40 45	Tle	Thr	Pro	Ala	Val	Val	Ser	Glu	Arg	Leu	Lys	Ile	Arg	Gly	Ser	Leu	
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85 90 95 gtt tca aag cac aga gct caa gta att tac acc aga aat acc aag ggt Val Ser Lys His Arg Ala Gln Val Ile Tyr Thr Arg Asn Thr Lys Gly 100 105 110 115 gga gat gct cca gct gct ggt gaa gat gca tgaataggtc caaccacc Gly Asp Ala Pro Ala Ala Gly Glu Asp Ala 120 125 <210 3865 <211 416 <212 DNA <213 Homo sapiens <220	gcc	agg	yca	31-	Ton	Cla	Clu	Lau	T.011	Ser	Lvs	Glv	Len	Tle	Lvs	Leu	
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Steel Loss Airs Airs Airs Gin Val Ile Tyr Thr Arg Asn Thr Lys Giy		85											2.2.t	200	220	aat	753
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Gly Asp Ala Pro Ala Ala Gly Glu Asp Ala	100															115	
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Color The Arg Glu Gly Lys Gly Ala Ser Ala Arg Asn Thr Asn Leu 20 25 30													a a t	aat	224		98
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So	ya.	- 1	Ton	Agn	Acn	Len	Val	T.e.11	Phe	Asp	Lvs	Ala	Thr	Tvr	Asp	Lys	
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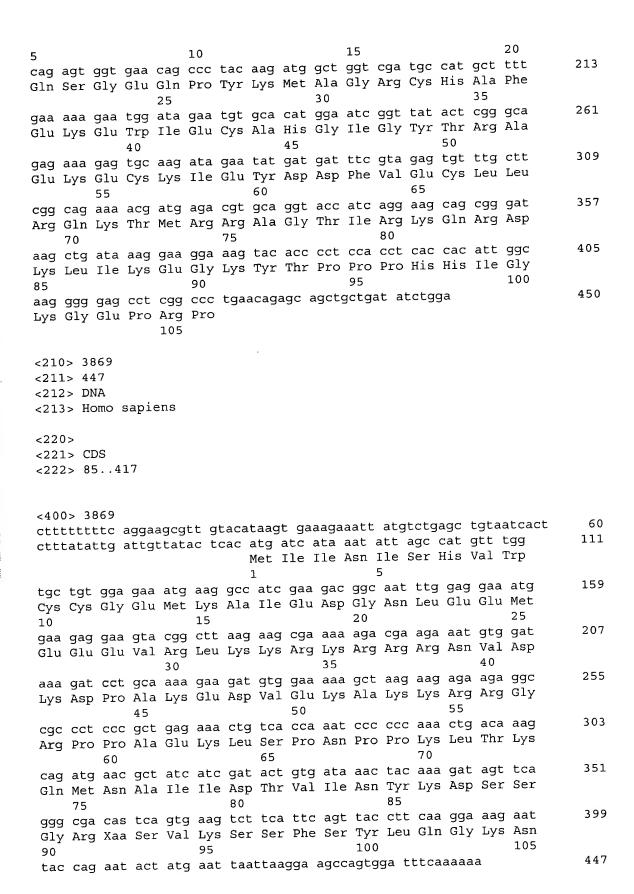


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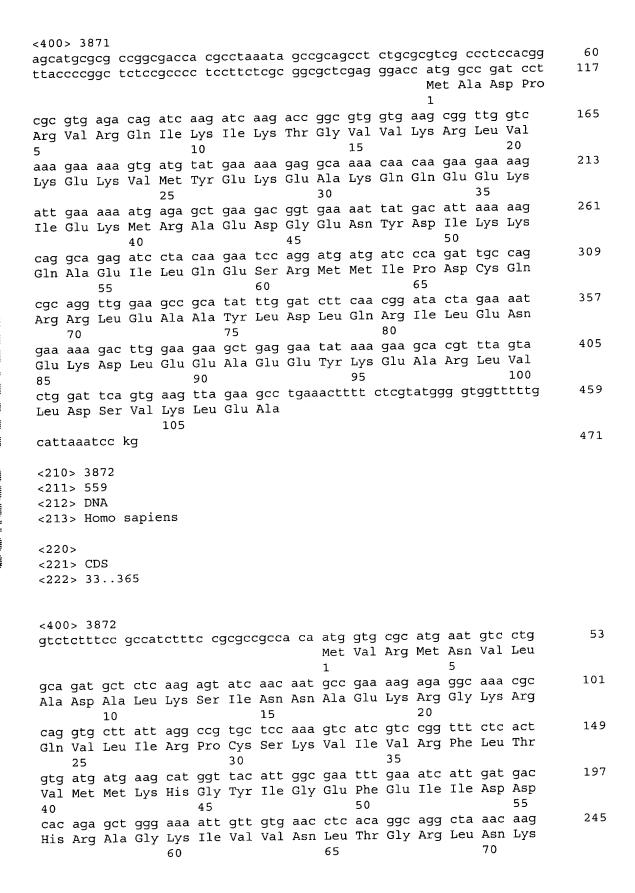
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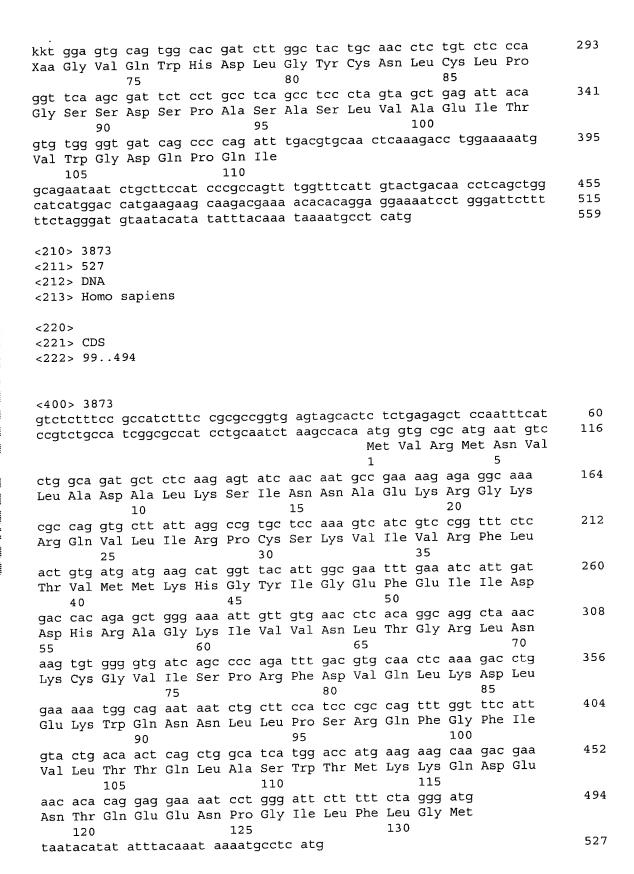
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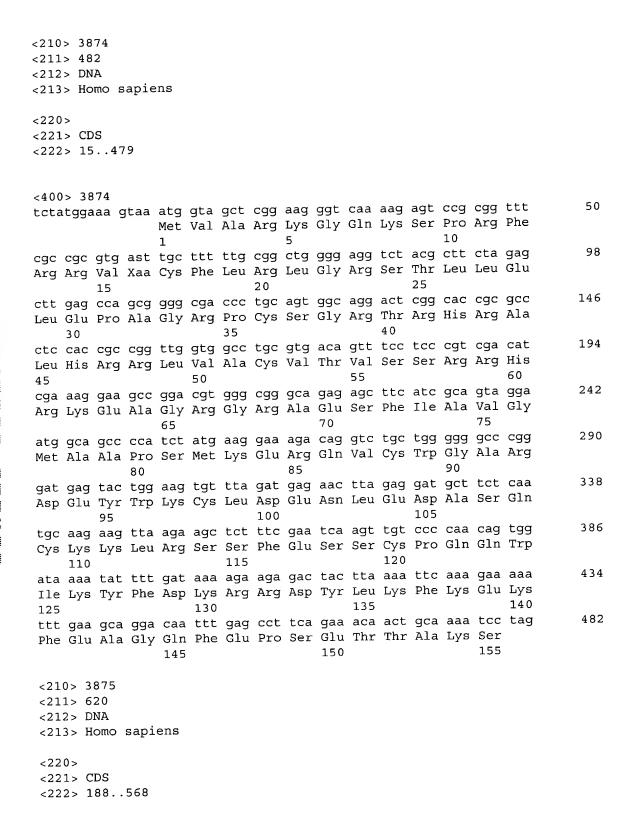
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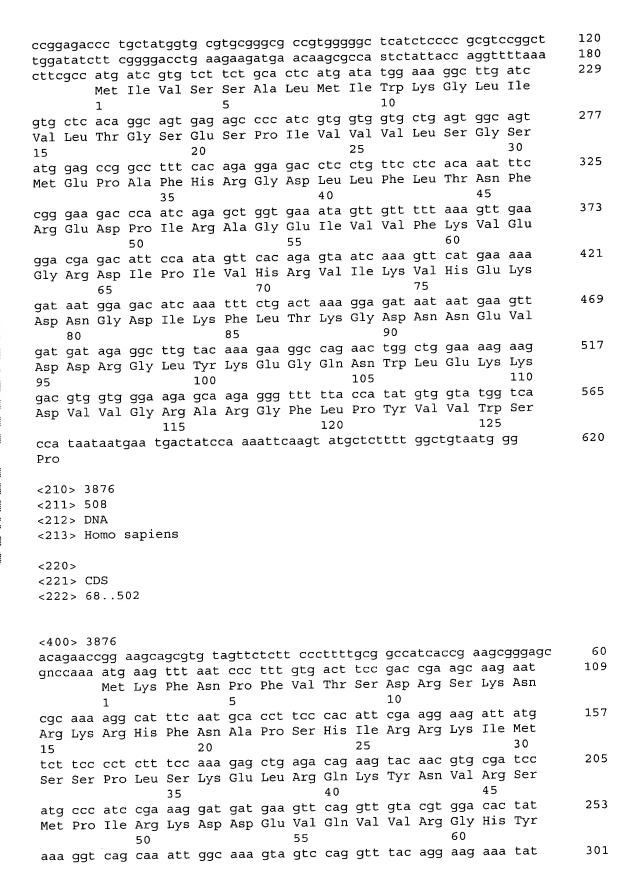
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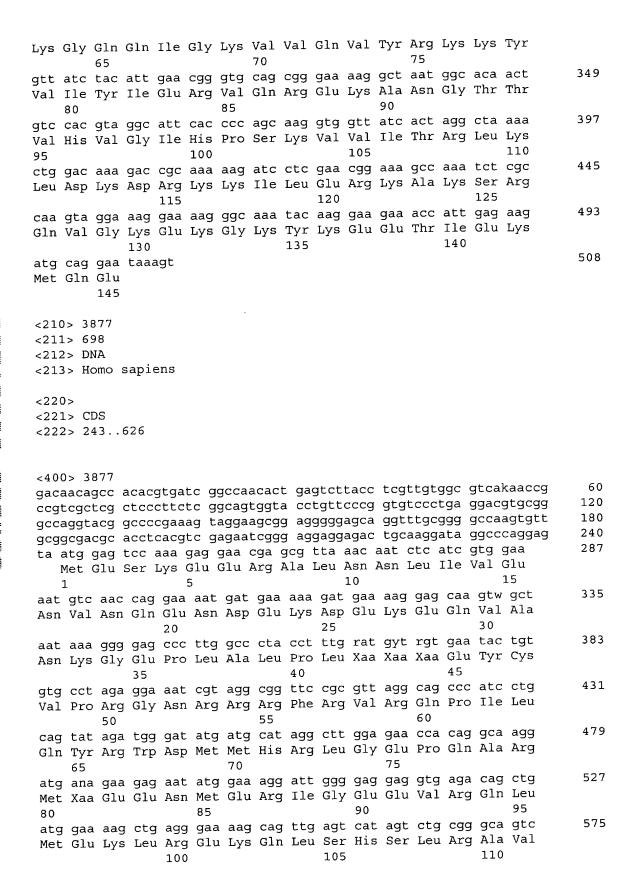


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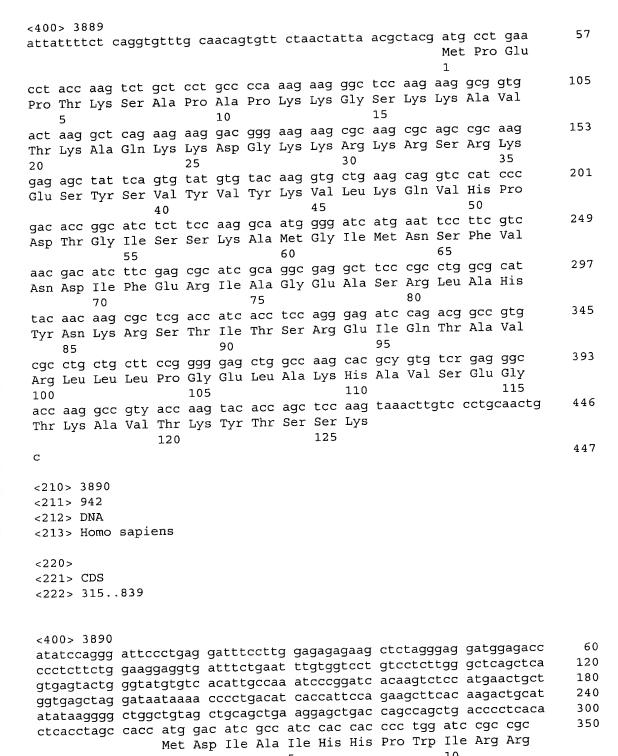
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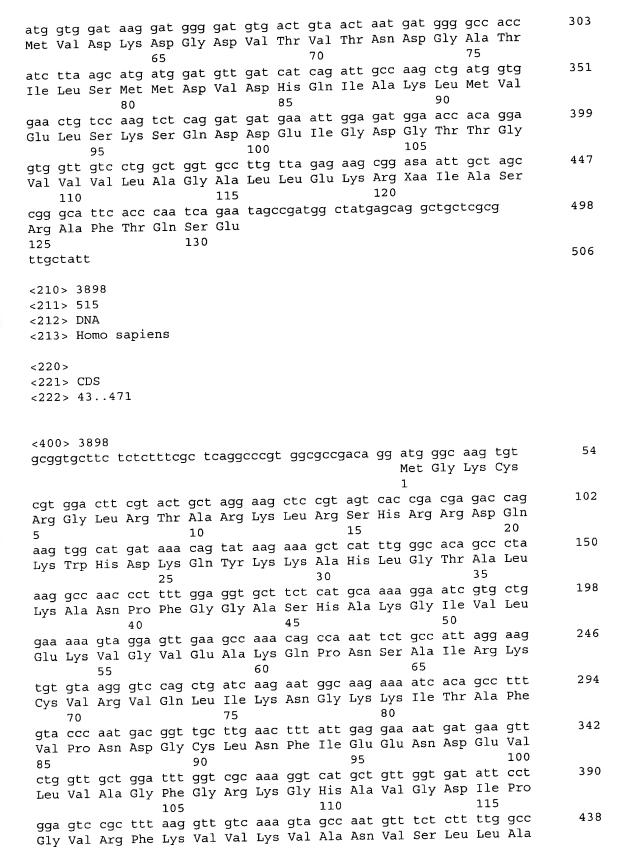
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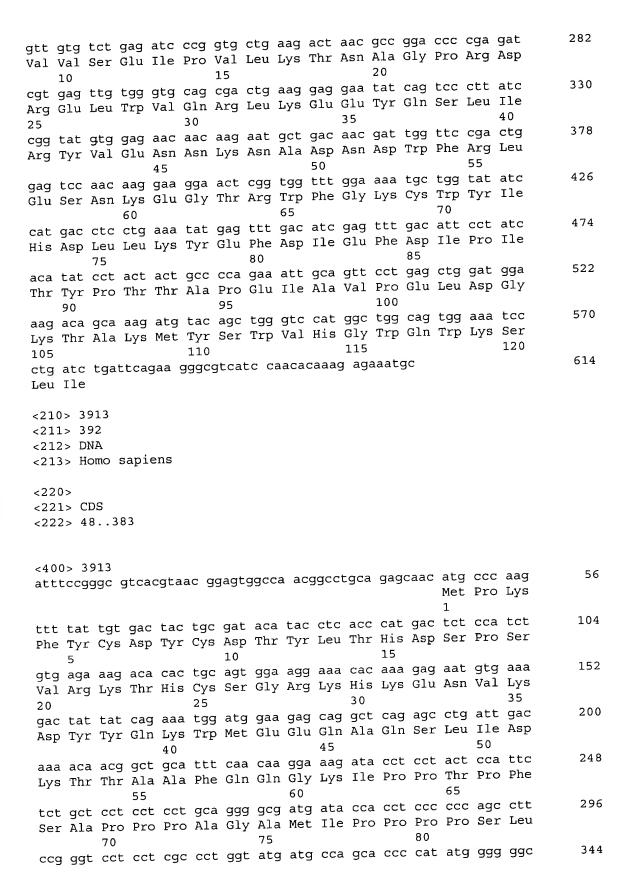
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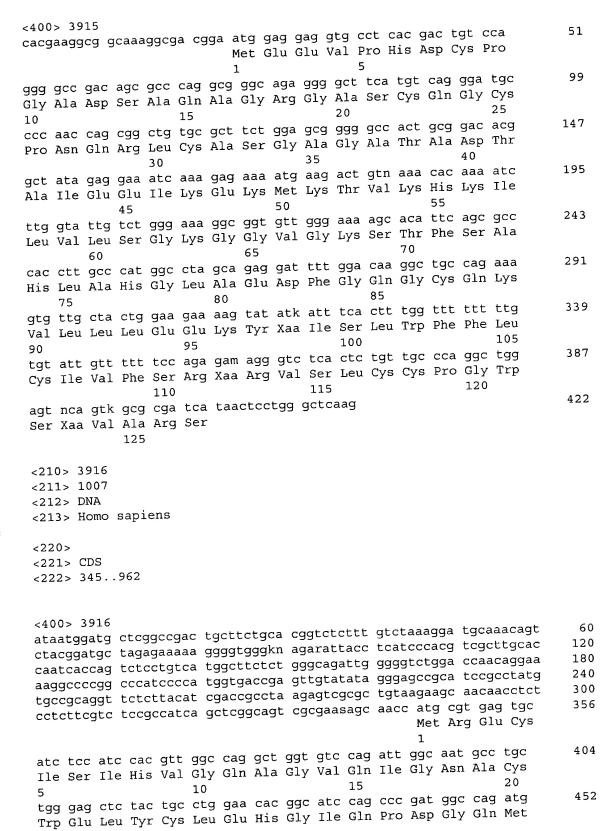
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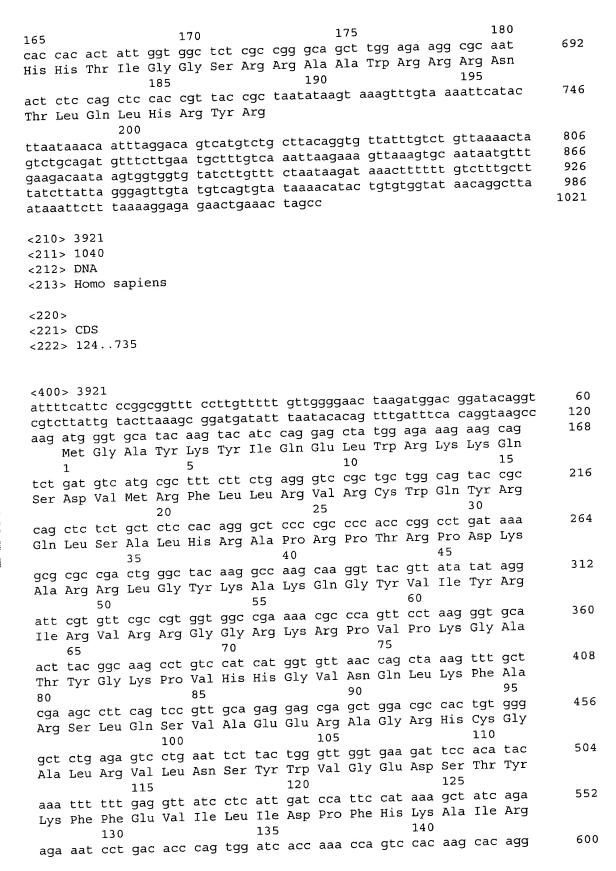
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GI	ı se	30	у су.	, , ,	. 011	· ··	35	1	1	_	-	40				
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AL	а т	T WO	рсу 95		1			100) -	-			10	5		





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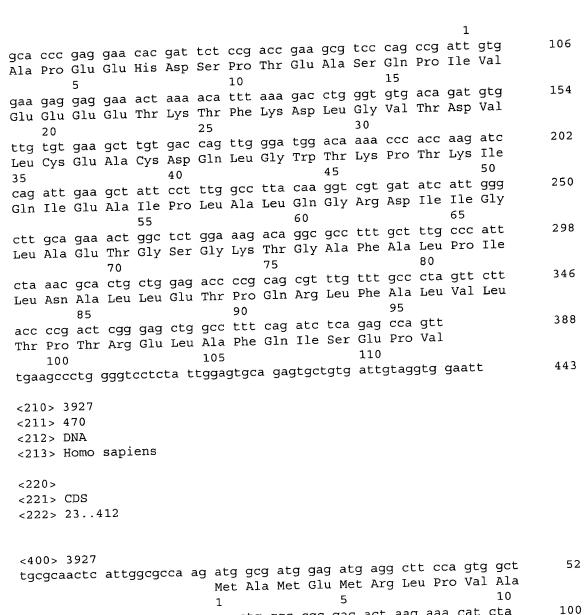
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Leu Glu	Pro Pro Glu	Pro Lys Lys	s Ser Arg A 185	ing cys var	190	
	180		102			



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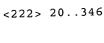
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Chiatan Tara e e e e e e e e e



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22t	asc	act Thr	25 +++	atc	cat	atc	act Thr	30 gat Asp	ctt	tct	ggc	aag	gaa	acc	atc	198
tgc Cys	Arg	40 gtg Val	act Thr	ggt Gly	ggg Gly	atg Met 60	45 aag Lys	gta Val	aag Lys	gca Ala	gac Asp 65	cga	gat Asp	gaa Glu	tcc Ser	246
Ser	55 cca Pro	tat Tyr	gct Ala	gct Ala	atg Met 75	tta	gct Ala	gcc Ala	cag Gln	gat Asp 80	gtg	gcc Ala	cag Gln	agg Arg	tgc Cys 85	294
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gga Gly	aat Asn	agg Arg	Thr	aag Lys	acc Thr	cct Pro	gga Gly	cct Pro 110	ggg	gcc Ala	cag Gln	tcg Ser	gcc Ala 115	ctc Leu	aga Arg	390
gcc Ala	ctt Leu	Ala	Arg	t.ca	ggt Gly	atg Met	aag Lys 125	atc Ile	ggg Gly	cgg Arg	att Ile	gag Glu 130	gat Asp	gtc Val	acc Thr	438
ccc	Ile	Pro	tct	gac Asp	agc Ser	act Thr 140	cgc Arg	agg	aag Lys	Gly	ggt Gly 145	cgc Arg	cgt Arg	ggt Gly	cgc Arg	486
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ga Gl	a aa u Ly	20 g tc s Se	t gg r Gl	c ct y Le	c gg u Gl	c gc y Al	c aa	g at	c cc e Pr	a gt	c ac l Th	a at	t ate	c ac	c ggg r Gly	261

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gac aat ggc ctt aga ggt att ggd aat Let gal gad to tot gal gal att gga gat tot gal gal att gal gal tot gal gal att gal gal tot gal	Glu	Glu	Trp	Leu	Glu	Leu	Arg	Asn 105	GIY	Cys	Leu	Cys	110	261	vai	цуз	501
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gtg act tct atg ttt tgg gtt gat gct gaa tta ggg agt gat att tac yal Thr Ser Met Phe Trp Val Asp Ala Glu Leu Gly Ser Asp Ile Tyr 150 ctt gat ggt atc ata act att gtg nat tca aaa tat gga tta aaa gtg Leu Asp Gly Ile Ile Thr Ile Val Xaa Ser Lys Tyr Gly Leu Lys Val 165 aaa tac cac taaaggcaga agagaatgaa atcatcccac cca Lys Tyr His 180 <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> </pre> <pre> </pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre> <pre> <pre> </pre> <pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	Phe	Asp	Asp	Ile	Leu		Glu	Thr	Thr	GIY	Leu	Ala	ASP	PIO	Gry	145	
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25 30 35 cca cta att caa ggc act ctt act gtr gga gca act gct ggt tct atc 261 Pro Leu Ile Gln Gly Thr Leu Thr Val Gly Ala Thr Ala Gly Ser Ile 40 45 50	CC.	a at r Tl	c ga e Gl	a CC;	y aa. n Lv	s Se:	r Pro	o Cy:	s Cy:	s Ph	e Gl	u Il	e Le	u Gl	u Gl	u Ser	
Pro Leu Ile Gln Gly Thr Leu Thr Val Gly Ala Thr Ala Gly Ser Ile 40 45 50					25					30					35		
Pro Leu Ile Gln Gly Thr Leu Thr Val Gly Ala Thr Ala Gly Ser Ile 40 45 50	cc	a ct	a at	t ca	a gg	c ac	t ct	t ac	t gt	r gg	a gc	a ac	t gc	t gg	t tc	t atc	261
	Pr	o Le	u Il	e Gl	n Gl	y Th	r Le	u Th	r Va	l Gl	y Al	a Th	r Al	а от	у Бе	r 11e	
	ac	a at	g aa	a cg	g ct	g gt	t tg	t gt		c tt	g gt	g tg	c tc	c tc	t gc	a gtg	309

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qca	cag	ttg	cat	aaa	gat	cct	acc	ctg	gat	cac	cac	tgg	cat	CLC	T C	39 rn	55,
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Lve	Lvs	Thr	Tvr	Glv	Lys	Gln	Tyr	Lys	Glu	Lys	Asn	Glu	Glu	Ala		u I	
~ =					90					95					1.	0 0	453
7.7.2	cat	ctc	atc	tgg	gaa	aag	aat	cta	aag	ttt	gtg	atg	ctt	cac	: a	ac	453
Arg	Arg	Leu	Ile	Trp	Glu	Lys	Asn	Leu	цуѕ	Phe	Val	Met	Leu	H1S		sn	
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ctg	gag	cat	tca	atg	gga	atk	cac	Cor	Tur	yac Nen	Leu	Glv	Met	Asn	ı H	is	
Leu	Glu	His		Met	GIY	Xaa	HIS	125	ıyı	ASP	DC u		130				
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	3> H		sapi	ens													
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gg	tgtc	ggca	gctg	getgi	ag (.yaay	jaya	,	-99-:	1	Met :	Ser :	His '	Thr	110	e Leu	
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a+	a at	- C20	r cci	- acc	r aac	g agg	a cc	a qa	a gg	c aga	a ac	t ta	t gc	t ga	ıc '	tac	164
T.0	y yu	a cay	n Pro	o Th	r Ly:	s Arg	, Pr	o Gl	u Gl	y Ar	g Th	r Ty	r Al	a As	sp '	Tyr	
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αa	a tc	t at	~ 221	t ga	a tg	c atq	g ga	a gg	t gt	t tg	t aa	a at	g ta	t ga	aa	gaa	212
G]	u Se	r Va	l As:	n Gl	u Cy	s Met	Gl	u Gl	y Va	l Cy	s Ly	s Me	t Ty	r G]	lu	Glu	
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са	t ct	g aa	a ag	a at	g aa	t cc	c aa	c ag	t cc	c tc	t at	c ac	a ta	t ga	aC	atc	260
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Se	r Gl	n Le	u Ph	e As	p Ph	e Il	e As	p As	р Le	u AI	a As	ь ге	u se	r C)	γÞ	70	
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Va	ıl Ty	r Ar	g Al	a As	p Th	r Gl	n Th	r Ty	r GI	n PI	о ту	T WE	, шу	8. 8.	ъp	- - F	
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at	1			~ ~+													
-	ct aa	ıa ga	ıg aa	g at	.C Ld	r Va	9 CL	.C C	.L CS	o Ar	g ca	n Al	la Gl	n G	ln	Ala	

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gac aac agc ctg gac ccc gat gat gag gac agt Asp Asn Ser Leu Asp Pro Asp Asp Glu Asp Ser	Asp Tyr HIS GIR GIR	152
gcc tac aag gag tcc tac aaa gac cgg cgg cgg Ala Tyr Lys Glu Ser Tyr Lys Asp Arg Arg 45	cgc gca cac act cag Arg Ala His Thr Gln 50	200
gct gag cag aag agg gac gcc atc aag aga Ala Glu Gln Lys Arg Arg Asp Ala Ile Lys Arg	ggc tat gat gac ctt	248
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caa aag ctc agc aaa gcc atc gtt cta caa aag Gln Lys Leu Ser Lys Ala Ile Val Leu Gln Lys	100	344
cag ttt ttg cac aag gag aag aaa aag cag gag Gln Phe Leu His Lys Glu Lys Lys Lys Gln Glu	115	392
tta cgc aag gat gtc acc gcc cta aag atc atg Leu Arg Lys Asp Val Thr Ala Leu Lys Ile Met 120 125	130	440
cag att gtg aag gca cac cag gac aac ccc atg Gln Ile Val Lys Ala His Gln Asp Asn Pro Met 135	aag ggg agg aca ggt Lys Gly Arg Thr Gly 145	488
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acc ggt ccc cac aag ttg aga gag tgt ctc ccc ctc atc att ttc ctg Thr Gly Pro His Lys Leu Arg Glu Cys Leu Pro Leu Ile Ile Phe Leu 35 40 45	201

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tgc Cys	50 atg Met	cag Gln	cgg Arg	ttc Phe	Ile	55 aaa Lys	atc Ile	gat Asp	ggc Gly	aag Lys 75	atc	cga Arg	act Thr	gat Asp	ata Ile 80	297
Thr	Tyr	Pro	gct Ala	Gly	Phe	Met	Asp	vaı	90	agc Ser	116	App	цуб	95	U -1	345
Glu	Asn	Phe	cgt Arg 100	ctg Leu	Ile	Tyr	Asp	105	гуѕ	GIA	Arg	FIIC	110	VUI		393
Arg	Ile	Thr	cct Pro	Glu	GIu	Ala	ьуs 120	TÀL	гуя	Беи	СуБ	125	141	5	-1	441
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Gln	att Ile	Asp	ttr Leu	Glu	act Thr	GIY	гуѕ	шe	170	Asp	FIIC	110	шус	175		585
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cac His	s Val	Lys	+	gcc Alæ	aat Asr	ggc Gly 215	aac Asr	: ago	ttt Phe	gcc Ala	act Thi 220	. ALS	ctt Leu	tcc Ser	aac Asn	729
Ile	e Phe	. ~+1	t att	ggc Gl	aag Lys	g ggo s Gly	aac	aaa Lys	a cca s Pro	tgg Trp 235	ידד ל	tct e Sei	ctt Leu	cco Pro	cga Arg 240	777
22: gg: Gl:		g gg s Gl	y Ile	e Arg	c cto	. 200	: 116	e Ala	gaa a Glu 250	i GI	g aga	a gad g Asp	c aaa o Lys	a aga Arg 25!	a ctg g Leu	825
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160 165 170 155 aac att ttt gtt att ggc aag ggc aac aaa cca tgg att tct ctt ccc Asn Ile Phe Val Ile Gly Lys Gly Asn Lys Pro Trp Ile Ser Leu Pro	580
Ash The Phie val The Gry Lys 180 185 175 180 185 cga gga aag ggt atc cgc ctc acc att gct gaa gag aga gac aaa aga Arg Gly Lys Gly Ile Arg Leu Thr Ile Ala Glu Glu Arg Asp Lys Arg	628
190 195 200 ctg gcg gcc aaa cag agc agt ggg tgaaatgggt ccctgggtga catgtcagat	682
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aca Thr	tact tgg	aca	cac His	gtac gaa Glu	aa c aac Lys	agat gato lle gggt	caag ctg Leu 15	a ag caa Gln	Me 1 aat Asn	cat His	ttt Phe ttc	gga I Th gga Gly 20	or The Sea ggg	nr Ar g aag y Lys	g c a g	Leu Egg Arg	
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aca Thr ctt Lev ttg Lev 40	tact tgg Trp ago Ser 25 ctt	ttg Leu 10 ctt	cac His ctc Leu	gtac gaa Glu tat Tyr tgt Cys	aac Lys aac Lys tys tys tys	g ato g Ile g ggt s Gly 30 c aat	ctg Leu 15 agt Ser	caa Gln gtc Val	Me 1 aat Asn cat His Pro	cat His gga Gly act Thr	ttt Phe ttc Phe 35 cta Let	g ac il Th ggs ggs ggs 20 c cgt a cgt a aca i Th	r The Sa ggg of Gly Gly Assa g Assa g to Ta	g aagy Lyst ggan Glyg at 110 c car	rg g c a c y \ t t g c g n	Leu Egg Arg gtt Val tat Tyr 55	162 210
aca Thr ctt Lev ttg Lev 40 age	tact tact tgg Trp ago Ser 25 g ctt Lev c gaar	ttg Leu 10 ctt Leu gac Asp	cac His ctc Leu aga Arg Cat His	gaa Glu tat Tyr tgt Cys	aa c Lys aag Lys tgt tgt 45 45; at	g atc g ggt g ggt g ggt g ggt a atc g atc	ctg Leu 15 agt Caa Glr Ala	caa Gln gtc Val ggg n Gly n tat a Tyr	Me 1 aat Asn cat His Pro	cat His gga Gly act Thr 50 gaa Glu	ttt Phe ttc Phe 35 cta Lei gao	g acgular aca aca aca aca aca aca aca aca aca a	r The Sa ggg Gly Gly Gly Asset tag Asset tag the Ty	g aagy Lyss gat ggat gat gli	rg con	Leu Cgg Arg Jtt Val tat Tyr 55 gaa Glu att	162 210 258
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aca Thr ctt Lev 40 age Se: gg: Gl: tc	tact tact tgg Trp ago Ser 25 g ctt Lev c gaa r Glv a ga r Gl	ttg Leu 10 ctt Leu cgac Asp a gat u Asp g tat s Tyr a tgg u Tr 90 t acc l Th	cac His ctc Leu Arg Arg Cat Arg Lys	gaa Glu tat Tyr tgt Cys att 60 t tco a Ser a cta	aac C Lys aac Lys 45 Cys 45 C at 11 C	g atc g ggt s Gly 30 c aatc e Gly c atc e Ile	caag ctg Leu 15 agt caa Glr caa cctt ccaa cctt ccaa cctt cc	caa Gln gtc Val a ggg a Gly a tat a Tyr t ttt Phe a aca s Th:	Me Asn Cat His Cct Ala 65 gca Ala Cca	cat His gga Gly act Thr 50 gaa Glu ctt	tttt Phe ttc Phe 35 cta Gli ca Gli ac	g aga aca aca a ga a act r Le	a gggy Gly aas a gtor Va tacr Ty tacr The 85 g ttu Ph	g aagy Lyss t ggan Glyg at 110 t aa r Ly t tg	T G A G Y te gn as	Leu Egg Arg gtt Val tat Tyr 55 gaa Glu att Ile	162 210 258 306 354

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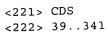
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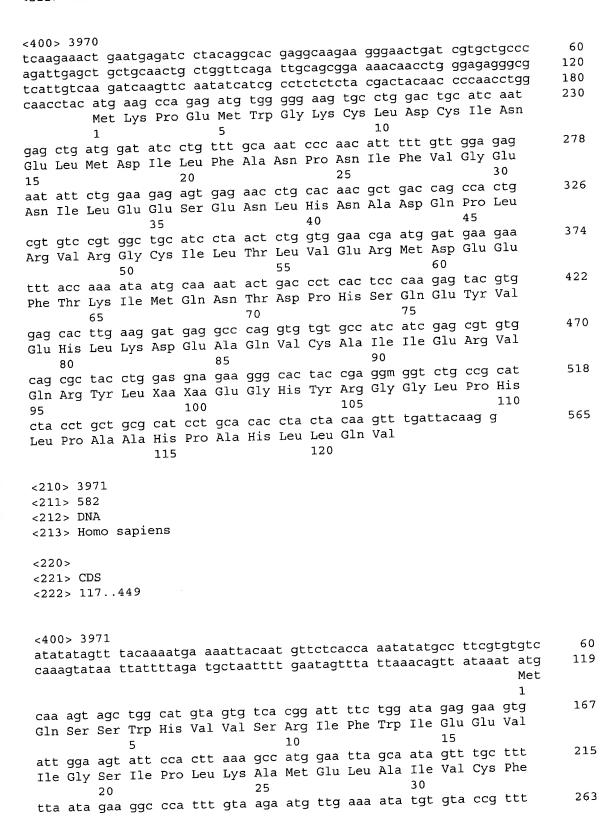
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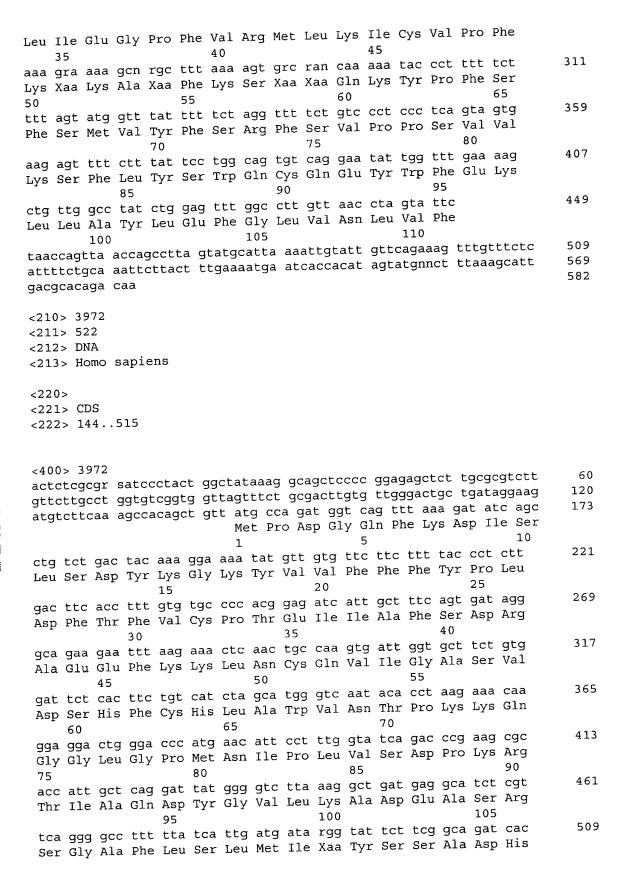
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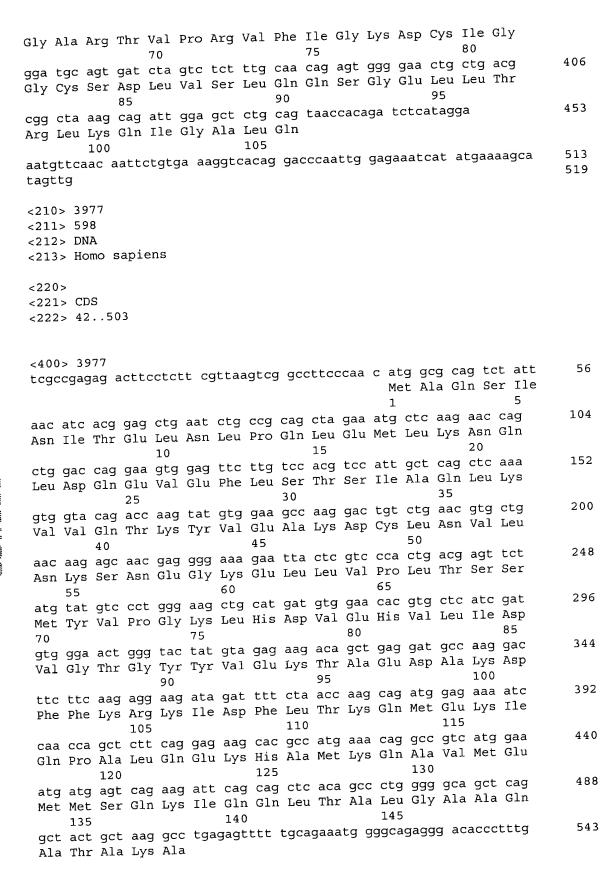




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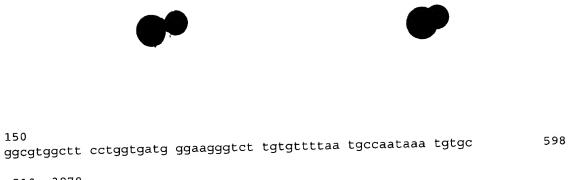
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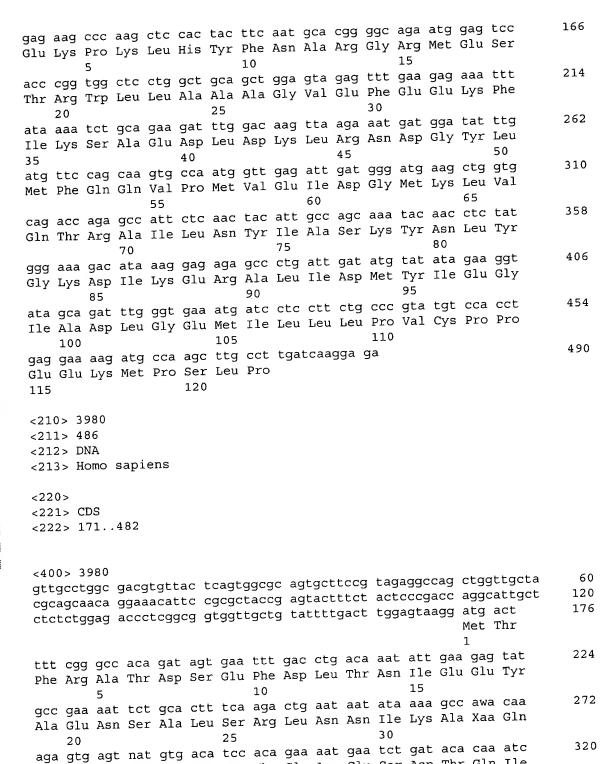


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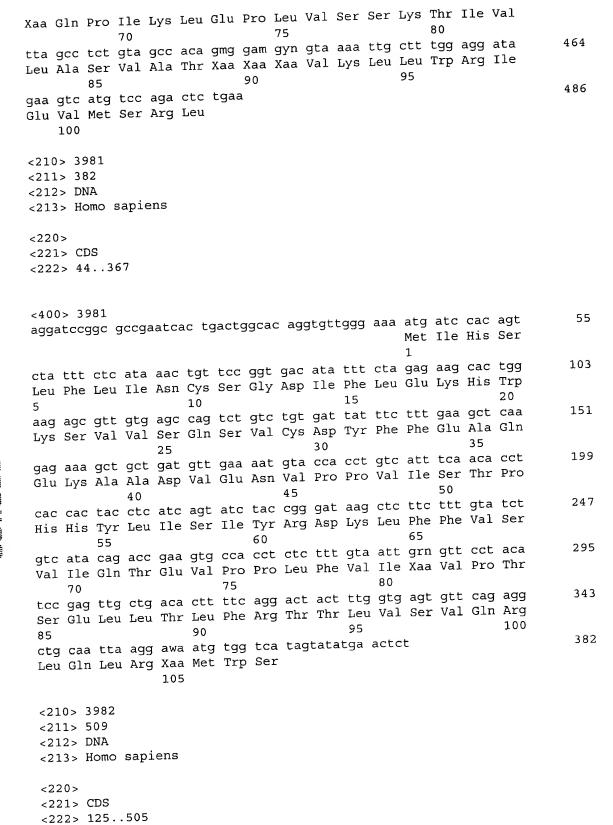
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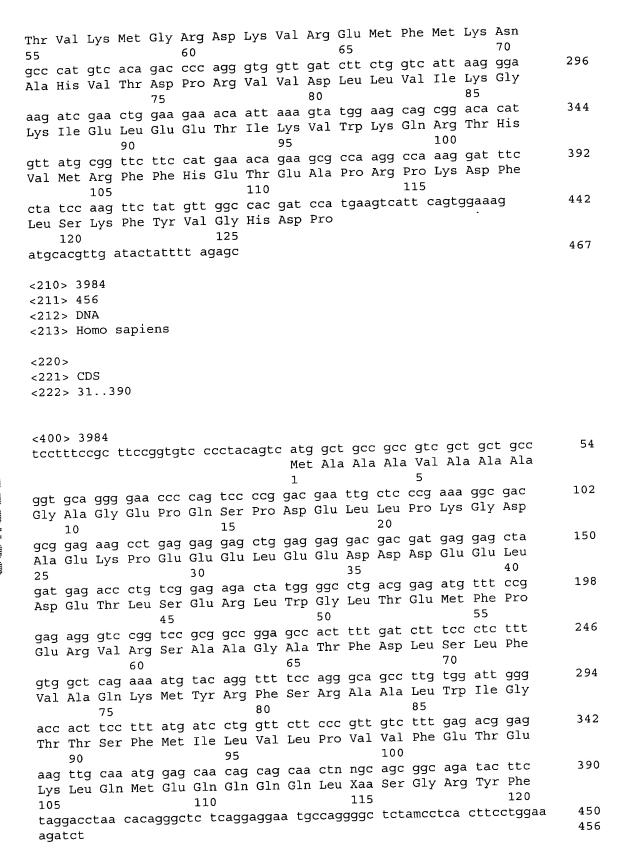
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1 5													
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Ser Cys Leu Pro Asn Pro Glu Gln Glu Asp Gly Ala Asn Asn Ala Phe													
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Val Ala Asp Phe Ala Val Gln Pro Ala Val Lys Pro 11p Ala Pro 10cd													
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ttt gaa gat gaa ctt cat cca gac ttg aaa ttc acg ggg gct gaa ttc

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2499

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297





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